

Research Article

<http://zoobank.org/urn:lsid:zoobank.org:pub:904DB71A-64B5-4BEC-8E8E-04646733FB8B>

First annotated list of the Lepidoptera recorded in Hazro district (Diyarbakır Prov., SE Turkey)

Muhabbet Kemal Ahmet Ömer Koçak

Abstract: First annotated list of the Lepidoptera recorded in Hazro district (Diyarbakır Prov., SE Turkey). *Cesa News* 109: 1-91, 69 figs., 87 maps.

In this paper, first results of the Hazro excursions of the authors are given. Faunistically 87 species of 21 families are reported from the district for the first time. Totally 42 species are new for Diyarbakır Province. 87 dual distributional maps are prepared. Field observations and prepared material are figured. Male and female genitalia of several species are also illustrated.

Key words: *Lepidoptera*, fauna, Hazro, Diyarbakır, Turkey, map, genitalia.

Within the private Cesa Project Entomofauna of Turkey (Koçak, 2014; Koçak & Kemal, 2015), a secondary short-term Project on the Lepidoptera diversity of the 15. Region² of the Ministry of Forest and Water Affairs (MoFWA) has been submitted and accepted. For this purpose, the authors visited Hazro district³ for the first time. The material studied here was collected by the authors in May and June 2015, within a very short time. Unfortunately, due to the unsafe circumstances and the seasonal stormy weather conditions, totally three days (by days and only one night) by using special light trap and butterfly net in the remote area very interesting material were collected by the authors.

¹ Turkey is going through hard times and bleeding, because of the foreign supported terrorism. Blackish background of the Cesa News denotes this bad situation at every respect. I hope that it doesnot become more obscure. A.Ö.K.

² 15. Region contains following 14 provinces in East Turkey: Adıyaman, Diyarbakır, Elazığ, Gaziantep, Malatya, Kahramanmaraş, Siirt, Mardin, Sivas, Tunceli, Şanlıurfa, Batman, Şırnak, and Kilis.

³ Hazro district code is **21L**.

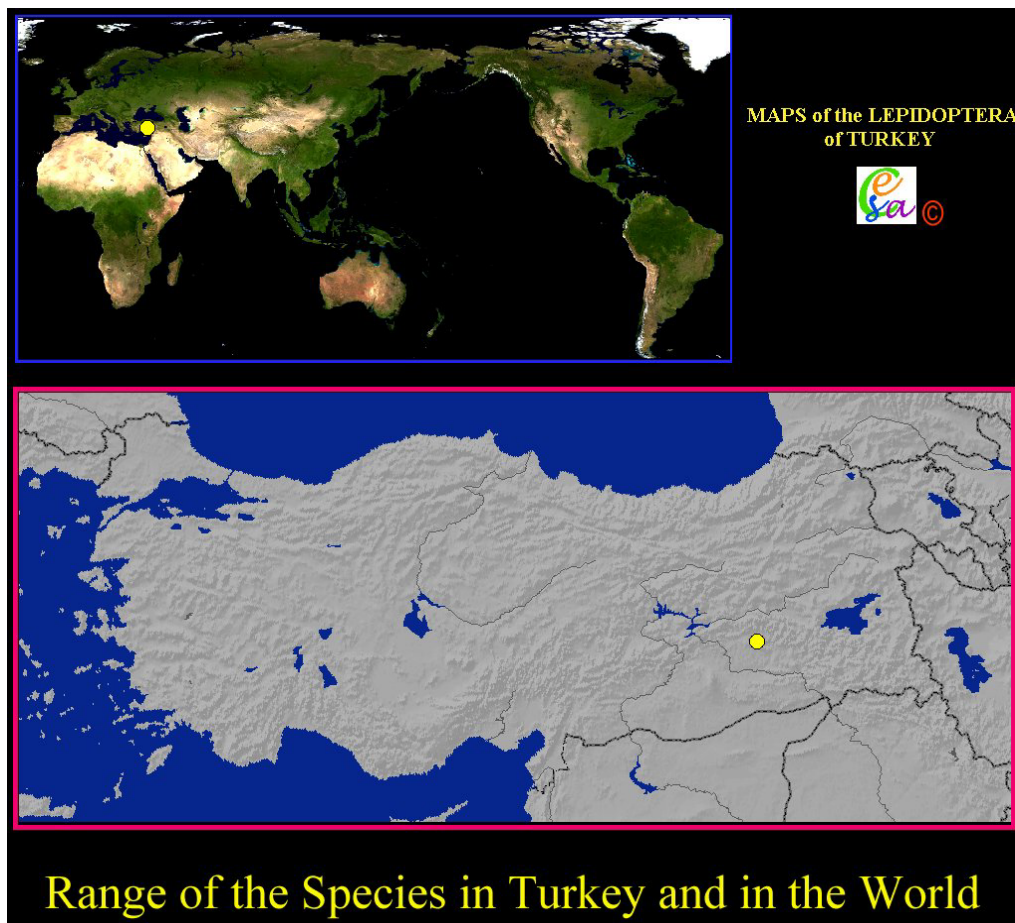
The visited localities together with their locality codes and collecting dates are as follows:

Hazro city (21La), 970m 16 5 2015; Uzunargıt (21Lc) 955m, same date; South of Dadaş 975m (21Le), 16 5 2015, 18 06,2015; South of Dadaş 985m (21Lf), 16 5 2015, 18 06,2015; East of Dadaş (Zerunek), 1075m (21Ld), 17 5 2015.

Hazro is located in East Turkey, Diyarbakır Province (**Map 1**). In the literature, there is a single paper published so far (Kemal & Koçak,2015). Therefore, its Lepidoptera fauna is still almost unknown.

Geographically, the district is mountainous at middle heights. Climatically, the summer is very hot and dry, effected by the Persian Gulf cyclone. Earlier in the summer, due to the cooler upperportion of the atmosphere, and sudden overheating of the land, thunderstorms and heavy rain occur and effect the environment negatively. Due to such a sudden thunderstorm, the authors had a very bad experience on 17 May 2015, during their expedition in the district.

As plant cover, at some places *Quercus* woodlands are still well presented. The mountain steppe is heavily grazed by herds of cattle (**Figs. 1,2**). Near the villages orchards, and along the streams *Salix* and *Populus* communities are seen frequently. Wheat fields are also common in the district. Topographically, Hazro is a very interesting area, however, many places are not freely accessible for not being safe. For that reason, the authors visited only the places Hazro city, Uzunargıt (for light trap) (**Fig.3**), and Dadaş villages, located in the southern area of the district.



Map 1- Geographical location of Hazro in Turkey.



Fig. 1 – Various habitats between Hazro and Dadaş, 16 05 2015, M Kemal (Cesa)



Fig. 2 – Habitat at South of Dadaş village, grazed grassy slopes by herds of cattle. 16 05 2015, M Kemal (Cesa)



Fig. 3 – Habitat at Uzunargıt, South of Hazro, a good place for the light trap. One of the rare places in the district, with remnant native plants among the rocks. 16 05 2015, M Kemal (Cesa)

In the following annotated list, totally 87 species of 21 families are given.⁴ To each species chronologically arranged synonymous names, and distributional information (as codes)⁵ are added. By using these codes, 86 dual distributional maps were prepared and used in this publication (**Maps 2-87**). In other words, explanation of the markings of each maps can also be read as codes under the related species listed. These enormous information are based upon the info-system of the Cesa.⁶

As a result of this very short excursion to Hazro district, totally 42 species are reported here as new for Diyarbakır fauna. Among them, only one butterfly species, *Cigaritis uighurica* is new for the province.

All the specimens were prepared and identified by the authors. They preserved currently in the collection of the Cesa. For identification the specimens, the info-system of the Cesa was used. Among the information, the “*Revised Checklist of the Lepidoptera of Turkey*” (Koçak & Kemal, 2009), and “*Evaluation of the lepidopterological bibliography based upon the Info-system of the Cesa*” (Koçak & Kemal, 2010) have special value for the present study.

About the text and, illustrations and maps, the following explanations are found useful. The list of the Lepidoptera of Hazro, are extracted from the database file of the info-system of the Cesa. The Lepidoptera list is divided into two major groups, the butterflies, and the moths. In these groups, the species are arranged alphabetically according to their families. The synonymous names are arranged chronologically. Global distributional information of each species are mentioned as codes. These codes are also used for preparing combined maps of the species (**Maps 2-87**). In the list below, the species new to Diyarbakır Province are marked with “*”. For arranging the illustrations, the following steps are applied. Illustrations of the diurnal (**Figs. 4-14**), and nocturnal observations (**Figs. 15-26**) in the district are given first. Later, the prepared specimens of the butterflies (**Figs. 27-31**), and the moths (**Figs 32-56**) are illustrated. Finally, the genitalia of the species, prepared necessarily, are given alphabetically according to their families (**Figs. 57-**

⁴ Several specimens of six moth species could not be identified at species level. These cases have been discussed under the related families in the following list.

⁵ list of the codes are obtainable from this address freely: <http://www.members.tripod.com/entcesa/Code.pdf>

⁶ <http://www.cesa-tr.org/Infos.htm>

69). In some preparations, some accessory organs of the male genitalia, such as last abdominal tergite or sternite, culcita etc. are also illustrated.

Alphabetical list of the Lepidoptera recorded in Hazro district

Butterflies

Argynnidae

- Melitaea (Cinclidia) collina Lederer, 1861** (Argynnidae) Synonym(s): *collina Lederer, 1861* Range (in codes): IL Pa IQ Shq LB SY TR IR Ab 01 21 23 24 27 30 31 33 44 46 56 62 63 65 73 80 21L 21Le 21Lf 21Ld 21N 21Nb 21Nh 21P 23I 23Ia 23Ib 27C 31M 31F 31Fb 33K 46G 46Gi 56F 62G 62Ga 63E 65D 65Dk 65Dt 65Dn 65K 65Kğ 80B 80Bc
- Melitaea (Cinclidia) ornata Christoph, 1893** (Argynnidae) Synonym(s): *ornata Christoph, 1893; uralensis Krulikowsky, 1897 nec Evers., 1844; ufensis Krulikowsky, 1902; lokris Fruhstorfer, 1908; telona Fruhstorfer, 1908; amanica Rebel, 1917; emipunica Verity, 1919; punicata Ragusa, 1919; dorae Graves, 1925; nigrogylia Verity, 1939; enoch Higgins, 1941; #asciata Wiltshire, 1946; capreola Varga, 1967; kovacsi Varga, 1967; abbas Gross & Ebert, 1975* Range (in codes): BG Slv Rh Bgz He ALb IL Pa Hf JO LB Elb Th Bk Fa Ke TR Cc SY IQ Ama Hjo IR Shr At Bn Ao Bs KG Or RU Sr Tt Uk Vl TR HU 01 02 03 05 06 07 08 10 12 13 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 35 36 38 41 42 43 44 46 48 49 50 51 55 56 58 60 62 65 66 68 69 70 71 73 76 80 05A 06B 06C 06G 06H 06K 06N 06Ne 06P 06R 06Rd 06S 06V 06Z 13C 13Cm 13F 13G 21L 21Le 21Lf 21N 21Nb 21O 27C 27Cb 31F 31Fb 33K 36F 36Fb 44E 44L 44Lc 49E 49Ea 56F 56F1 56fg 56Fp 56Fm 56Fy 56Fs 58C 58G 58Ga 58Gi 62H 65D 65Dc 65Dr 65Drb 65F 65Fz 65Fç 65N 65Np 65Np7 65Nm 66A 66P 66Pa 73D 73Dg 76D 76Dğ 80B 80Bd
- Thaleropsis ionia (Eversmann, 1851)** (Argynnidae) Synonym(s): *ionia Eversmann, 1851; ammonia Herrich-Schäffer, 1851.* Range (in codes): Kas Cc AM GG GR IQ Slf AZ Ord Nv IR TR 03 05 06 07 08 13 21 23 24 25 28 30 32 33 42 44 47 48 56 58 60 62 65 70 73 05A 06R 13F 13G 13Gf 21L 21Le 21N 21Nb 25F 25Fa 33A 44F 44Fb 44O 44Oc 56F 62F 65Bx 65D 65Di 65Dw 65Dj 65Dl 65Dk 65Dv 65Dm 65Do 65Dob 65Dr 65Drb 65Dw 65Dü 65G 65Gd 65Ge 70B 73A 73Ad 73Ad2 73Ak
- Vanessa (Cynthia) cardui (Linnaeus, 1758)** (Argynnidae) Synonym(s): *cardui Linnaeus, 1758; carduelis Cramer, 1775; elymi Rambur, 1829; kershawi McCoy, 1868; pallida Schoyen, 1881; japonica Stichel, 1908; universa Verity, 1919; takesakiana Kato, 1925; jacksoni Clark, 1927* Range (in codes): Ad Ae AF AL As At AT Az BE BG BH By Ch CH CN Co Cr CY CZ DE Dh DK EE ES FI FR GB GR Hd Hj HU IE IL IN IQ IR IS IT JO KG KK KW LB Ld LT LU LV MN MT Mu Nf Nj NL NO PH PK PL PT QA Rd RO RU SA Sa SE SI Si SK SY Ti TJ TM TR T-S UA Ui UZ YE YU SS HV B-H MK Mt AO BF BI BJ BW BZ CF CG CI CM Cn DJ Dj DZ EG EH ER ET FP GA GH GM GN GO GW KE KM LR LS LY MA MG ML MR MW MZ NA NE NG RW SC SD Sem SL SN SO ST SZ TD TG Tk TN TZ UG ZA ZM ZR ZW Cw Dv Smt H-W Sur Ssx Ken Cy LY Kts Tm Ci Um Sau Tar DsA TeA KuA TrA Ket Bn Ar Mu Mu18 GG AZ Nv AM MD NP Ab Ak Ahw Ar Ara B-A Bk Brz Bu By Dzf Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Ke Luz Mno Neg Pal US MX Aks Alb Arz Cf Cnt Col Dw Fl Ge Id Idp Iln Io Kan Knt Lou Mai Mch Mis Mns Mon Mrl Msc Mss Nca Ndk NMx Ne Neb Nh Nje Ny Oh Ok Org Pns RDi SDk Tnn Tx Ut Vi Vr WVi We Ws Wy Ord Nta Kzy Pth Gau Pre Est Spb Lj Tva Lpo Mdk Ent Kru Pma Pf Pa Hf TH Cma SD91 SD119 SD119 Zom Zor Aru Oru Jal Msw Kh KP KR JP Koh Msr Nra Bhh Ad SO Zai Ifr Rbt Saia Tlm Orn Agi Blid Ges Dje Ogl Bsk Ktr Btina BSa Tmn Ah Ajj Hrh Sfr Mzg Onç Ceg Gtt Rbt Azr Idl Ath Ng Jla Hr BLM Prw Pnj 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 67 68 69 70 71 72 73 74 75 76 78 80 81 04D 05A 06B 06C 06D 06G 06H 06K 06N 06R 06Rd 06V 06Z 13A 13Ab 13Ac 13Ax 13B 13Ba 13C 13Cf 13Cg 13D 13Da 13F 13F33 13F35 13G 13Gö 13Gğ 13Gv 13Gk 13Go 13Gw 13Gz 14I 14Ib 21K 21L 21Le 21N 21Nb 21Nh 21P 21Pa 21O 23D 23Dc 23I 23Ia 23Ib 23E 23M 25A 25F 25Fa 25Fb 25Fc 27C 27Cb 29A 29Ac 30B 30Bb 30Bk 30D 30Df 31F 31Fb 31K 31Ka 31La 36D 36Db 39C 44A 44Aa 44Ab 44E 44L 44Lc 45L 45La 46F 46Fc 47F 48A 48Ak 48D 48F 48L 49E 49Ea 49Ec 49F 49Fb 49Fe 49Ff 56A 56D 56Db 56Dc 56Dh 56Dğ 56F 58C 58G 58Ga 58Gd 58Gi 62G 62Ga 62E 63B 63D 63E 63G 63M 65B 65Bk 65Bi 65Bx 65D 65Dc 65Dç 65Dk 65DI 65Dle 65Dn 65Do 65Dr 65Drb 65Dt 65E 65Eb 65Ec 65Eç 65Ed 65F 65F1 65Fb 65Fd 65Fg 65Fj 65Fm 65Fn 65Fq 65Fr 65Fü 65Fw 65Fz 65G 65Gb 65Ge 65Gf 65GI 65Gi 65Gv 65Gz 65K 65Kc 65Ka 65KI 65Kğ 65Ks 65Ky 65Ky1 65L 65N 65Nc 65Nc4 65Ng 65Nh 65Nk 65Np 65Np1 65Np2 65Np3 65Np4 65Nm 65NI 65No 65Nr5 65M 65Mc 65Md 66A 66P 66Pa 72E 72Ek 72F 73D 73Da 73Df 75F 75Fg 75Fj 75Fi 76A 76Ac 76B 76Bf 76Bh 76C 76D 76Da 78D 78Da 80B 80Bc

Hesperiidae

- Carcharodus (s.str.) alceae (Esper, [1780])** (Hesperiidae) Synonym(s): *alceae Esper, [1780]; malvae Hufnagel, 1766 nec Linn., 1758; malvarum Hoffmannsegg, 1804; magnaustalis Verity, 1924; corsicus Picard, 1948.* Range (in codes): AF AL AM Ao AT AZ Ba BE BG BY Ch Ci CN Co Cr CZ DE ES FR Gg GG GR Rd Gs Hd Hp HU IN IQ IR IT KG Kr Ku LB Ld LU MA Mre Haz Mus NL Pag PK PL PT RO RU Sa Si SK Sm Sml So Sr TM TN TR UA Ui Uk Up VI YE YU Mt Ko MK SS At Mn Sp Tk Aa Tm Sau Tar DsA Ax Tls Ng Hr Kab T-S Mu CH HV B-H DZ Bn CY IL Pa Hf Cc Arr Ab Ak Shf GlS Kh Nar 01 03 04 05 06 07 08 09 10 12 13 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 38 39 41 42 43 44 45 46 47 48 49 50 51 53 56 58 60 62 63 65 66 67 70 71 72 73 74 75 76 78 79 80 01A 01H 01K 01F 04D 04Db 05A 06B 06G 06K 06R 06Rd 06V 06Z 12A 12Ai 13F 13G 13Go 13Gv 13Gw 21L 21Le 21Lf 21N 21Nb 21O 23D 23Da 23I 23Ia 25F 25Fa 27C 27Cb 27E 30A 30Aa 30B 30Bd 30Bc 30Bh 30Bf 30Bj 30Bg 30D 30Da 30Bj1 30Bo 30Br 30Dt 31A 31Aa 31F 31K 31Ka 31O 33O 36D 36Db 36F 36Fb 39C 44L 44Lc 48A 48Aa 48Ak 48D 48F 49E 49Ea 49Ef 49F 49Fb 56F 63D 63E 65B 65Bo 65Bx 65D 65Dc 65Dç 65Dd 65Dda 65DI 65Do 65Dp 65Dr

65Drb 65Dt 65Dw 65Dn 65E 65Ea 65Eb 65Ed 65F 65Fb 65Fd 65Fg 65Fu 65Fq 65F3 65F1 65Fz 65G 65Gn 65K 65Kb 65Kc 65Kl 65Kö 65Ks 65N 65Na 65Np 65Np4 65Nm 66A 72E 72Eb 73A 73Ad 73Ad2 73D 73Db 75E 76B 76Bb 76Bf 76Bh 76D 76Da 76Df 78D 78Da 79B 80B 80Bc 80C 80G

6. **Erynnis (Hesperopegasus) marloyi (Boisduval,[1834])** (Hesperiidae) Synonym(s): *marloyi* Boisduval,[1834]; *sericea* Freyer,1838; *rustan* Kollar,[1849]. Range (in codes): AF AL BG GR IQ Rwz Shq IR Ab Qba Kp Fa Shr Kh LB MK RU TM TR Cc 01 03 04 05 06 07 08 09 12 13 16 17 18 21 23 24 25 27 28 29 30 31 32 33 34 35 36 38 40 42 44 46 48 50 56 58 60 62 65 66 70 71 72 73 76 01H 01K 05A 06B 06K 06N 06R 06Rd 06V 06Z 13G 13Ga 13Gö 13Gg 13Gs 13Gw 13Gz 21L 21Le 21N 21Nb 21O 23D 23Dc 23I 23Ib 25F 25Fa 30B 30Bd 30Bc 30Bh 30Bk 30Bj 30Bg 30D 30Da 30Dt 31A 31Aa 31B 35L 36D 36Dc 56F 65D 65Dc 65Dl 65Do 65Dq 65Dp 65Dr 65Drb 65Dw 65F 65Fb 65Fd 65Fp 65Fz 65K 65Kd 65Kg 65L 65La 66A 72E 72Eg 73A 73Ad 73Ad2
7. **Spialia (Neospialia) orbifer (Hübner,[1823])** (Hesperiidae) Synonym(s): *orbifer* Hübner,[1823]; *tesselloides* Herrich-Schäffer,[1845]. Range (in codes): AF AL At Kts Ba BG BY CN GR HU HV JO IQ IR LB KG KK Kr MK RO RU Si SK Sm Sr SS TR AM UA Ui Vi YU Mt Ko Mn Sp Tk Aa Syr Tm Sau Mrk Tar TrA DsA Ax TeA Bl Ci Gg Kab Nwf Pag PK Sju Qu Urk Zi Shs Sng She Gor Mrw Man Nmg Br Smk Bsa Bei Aiz Zah Js Shq Dk Krd Km Amm Hal Dms Bld UA Cm Th T-S IL Pa Hf Rd Cc Ab Ak Msw 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 72 73 74 75 76 77 80 05A 06B 06C 06K 06G 06N 06Nc 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 13A 13Ae 13Af 13Ax 13C 13Cd 13E 13Ea 13F 13G 13Gd 13Gv 21L 21Le 21Lf 21N 21Nb 21O 23D 23Dc 23I 23Ia 23Ib 23E 23M 25F 25Fa 25Fb 27C 27Cb 30A 30B 30D 30Dt 31F 31K 31O 31L 31La 31A 31M 33K 33O 36D 36Dc 36F 36Fb 38H 38Hc 39C 44A 44Aa 44Ab 44E 44Ej 44L 44Lc 44O 44Oc 45L 45La 46F 48A 48Ak 48Ah 48F 49E 49Ea 49F 49Fb 49Fd 56F 56F1 58G 58Ga 58Gd 58Gi 58Gj 62F 63D 63E 65B 65Bk 65Bo 65Bx 65D 65Dc 65Dc 65Dd 65Dda 65Dg 65Dk 65Do 65Dq 65Du 65Dv 65G 65Gn 65Gm 65Gz 65F 65Fb 65Fh 65Fg 65Fç 65Fe 65Fr 65Fp 65Fq 65F1 65Fj 65F3 65Fx 65Fz 65K 65Kc 65Kl 65Kö 65Kz 65Kg 65N 65Np 65Np1 65Np3 65Np4 65Np7 65Nr2 65Nr4 65Nr6 65Nr7 65Nm 66A 72E 72Ec 72Ei 75E 76C
8. **Thymelicus lineolus (Ochsenheimer,1808)** (Hesperiidae) Synonym(s): *lineolus* Ochsenheimer,1808; *virgula* Hübner,1813 *nec* Retz.,1783; *ludoviciae* Mabilite,1883; *pallida* Tutt,1896; *clara* Tutt,1905; *hemmingi* Romei,1927; *melissus* Zerny,1932; *fornax* Hemming,1934 Range (in codes): At Kts AF AL Ao AT Ax Ba BG B-H BL BY CH CN Co CZ DE DK EE ES FI FR GB GR HU HV IL IR IT JO KG KK LB LT LU LV MA MK NL NO Pa LB PT RO RU SE Si SK Sm So Sr SS TM TR T-S UA Ui Uk Vi YU Sur Ssx Ken Mt Ko DZ TN Or Bs Tt Cb Kg Ty Kt Rk Pw Ka Sp Mn No Tk Aa Mu Aq Bn Tm Kuz Sli Sau Tar DsA Ax Tls TrA T-S GG AZ Nv Ord Smt Bjo Cc IQ Mos US Cnt Col Dw Id Idp IlN Io Knt Mai Mch Mis Mns Mon Mrl Msc NCa Ndk Neb Nh Nje Ny Oh Pns RDi Tnn Vi Vr WVi Wc Wy Ab Sro Jal Kh Ifr Lbs Afr Ges Lkr Ouk Dju Hr BLM 01 02 03 04 05 06 07 08 10 12 13 14 15 16 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 36 38 39 40 42 43 44 46 47 48 49 50 51 56 58 60 62 63 65 66 69 70 71 73 74 75 76 78 80 01H 01K 04D 04Db 05A 06B 06G 06K 06R 06V 06Z 13A 13Ae 13Ac 13Af 13Ag 13Ah 13Ax 13B 13Ba 13D 13Da 13E 13Ea 13G 21L 21Lf 21N 21Nb 23D 23Dc 23I 23Ib 24E 24Ea 25F 25Fa 25Fb 25Fc 30A 30Aa 30B 30Bc 30Bd 30Bh 30Bf 30Bg 30D 30Da 30Df 30Dfa 31A 31Aa 33K 36D 36Dc 36F 36Fb 44A 44Ab 44L 44Lc 46D 46Da 49E 49Ea 49Ec 56A 56Ac 56B 56F 58R 58Rb 65B 65Bk 65Bo 65Bx 65D 65Dc 65Dl 65Db 65Dp 65Dq 65Dm 65Du 65E 65Eb 65F 65Fb 65Fg 65Fh 65Fe 65Fj 65F2 65Fz 65G 65Ge 65K 65Ké 65Kd 65Kö 65Kg 65N 65Np 65Np1 65Np7 65Np8 65Nm 66A 73A 73C 73Aç 73Cd 73Ce 75E 75F 75Fd 76C 76D 76Da 76Df 80B 80Bc

Lycaenidae

9. **Celastrina argiolus (Linnaeus,1758)** (Lycaenidae) Synonym(s): *argiolus* Linnaeus,1758; *cleobis* Sulzer,1776; *thersanon* Bergsträßer,1779; *argyphontes* Bergsträßer,1779; *argalus* Bergsträßer,1779; *marginatus* Retzius,1783; *acis* Fabricius,1787 *nec* Dru.,[1773]; *#parvipuncta* Fuchs,1880; *calidogenita* Verity,1919; *britannia* Verity,1919. Range (in codes): He IL Ae AL AM Ao At AT AZ Ba BE BG BY CH CN Co Cr CY CZ DE DK DZ EE ES FI FR GB GG GR HU IE IQ IR IT KG KK Ku LT LU LV MA MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr TM TN TR UA Ui Uk Vi YU Cw Dv Smt H-W Sur Ssx Ken SY Kuz Sli DsA TrA KuA Ax Sau Ta JP MN KP KR TW Yu PH Luz Vv Sh Buk Mrl US CA MX PA LB Sj AF Als Ssk Mnt Mon We Nfl Ti Btn Ats BCo Cf Ut Ne NMx PA GT Us Mc Bry Ok Sca Tx Ge Lou Kan Aks Mss Alb Bn T-S Ab Ak Elb Th Ha Fa Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm MX Arz Cf Cnt Col Dw Fl Id Idp IlN Knt Mai Mch Mis Mns Mon Mrl Msc NCa Ndk NMx Ne Neb Nh Nje Ny Oh Org Pns RDi Sdk Tnn Ut Vi Vr WVi Wc Ws Wsr TH Cma CDo MM NP IN Cle SI Slo Ass VN Ann Ce Arr Shf Agi 01 02 03 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 45 46 47 48 49 50 51 52 53 54 56 58 59 60 61 62 65 66 67 69 72 73 75 76 78 81 01D 01G 01H 01K 05A 06C 06G 06K 06R 06Rd 06Z 07A 07B 12A 12Ab 13A 13Ab 13Ax 13B 13Ba 13Bg 13E 13Ea 13F 13F35 13G 13Ga 13Gö 13Gg 13Gv 13Gw 13Gs 21L 21Lf 21N 21Nb 21O 23D 23I 23Ia 23Ib 23M 25F 25Fa 27C 30B 30D 30Dh 30Dt 31A 31Aa 31L 31La 31F 31M 33A 33K 36F 36Fb 39C 44F 44Fa 45L 45La 48A 48Ak 49E 49Ec 49F 49Fb 49Fe 53L 56F 62E 65B 65Bk 65Bx 65D 65Dc 65Dh 65Dk 65Do 65Dt 65Dx 65F 65Fç 65Fd 65Fe 65F1 65Fq 65Ft 65Fu 65Fy 65F3 65Fz 65G 65Ge 65Gp 65K 65Kg 65N 65Np 65Nm 66A 72E 72Ec 73A 73Ad 73Ad2 73C 73Cd 76B 76Ba 76C 78D 78Da 80B 80Bc 80Bd 80C
10. ***Cigaritis uighurica Kemal & Koçak,2005** (Lycaenidae) Synonym(s): *maxima* Staudinger,1901 *nec* Elw.,1892; *uighurica* Kemal & Koçak,2005; *ottostaudingeri* Weidenhoffer & Bozano,2007 Range (in codes): IQ IR Zj Fa Ke TR 01 02 13 21 23 24 27 30 33 44 46 47 56 65 72 73 80 13C 13Cg 21L 21Lf 23D 23Dc 23I 23Ia 24E 24Ea 30B 30Bd 30Bg 30D 30Dt 44L 44Lb 46F 46Ff 46G 46Gg 56A 56F 65D 65F 65Fç 65Fç 65Fp 65Fz 72E 72Ec 73A 73C 73Cd 80B 80Bc
11. **Glaucopsyche (s.str.) alexis (Poda,1761)** (Lycaenidae) Synonym(s): *alexis* Poda,1761; *damaetas* [Denis & Schiffermüller,1775; *#sublugens* Strand,1909; *#insulicola* Turati & Fiori,1930; *mironi* Coutsis,1976. Range (in codes): AF AL AM AT At Bn Cc AZ Ba BE BG BY CH Co CZ DE DK DZ Afl Lbs BtNa EE ES Mu Mu18 FI FR GG GR Rd HU Ii IT KG Ku LT LU LV MK NO PL PT RO RU SE Si SK Sm So Sr TM TN TR Arr LB IQ UA Uk Vi YU He IL Pa Hf IR Ab Jal Th 01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 56 58 60 61 62 65 66 68 69 70 71 73 74 76 80 01A 01H 01K 04D 04Db 04I 05A 06A 06B 06C 06N 06P 06R 06Rd 06S 06V 06Z 13D 13Da 13E 13Ea 13F 13G 13Gb 13Gö 13Gg 13Gv 21L 21Le 21Lf 21Ld 21N 21Nb 23I 25F 25Fa 25Fc 27C 27Cb 27F 29A 30B 30Ba 30Bg 30Db 30De

30Dt 31A 31Aa 31B 31F 31K 31Ka 31L 31La 33A 33C 33K 36D 36Da 36Dd 36F 36Fb 38H 38Hc 44I 44Ia 44L 44Lc 46F 46Fc 46Fd 46G 47B 47E 56D 56Db 56F 56Dc 56Dd 56Df 56Dg 56Dj 56Dk 56Dl 56Dq 56Dn 56Dm 56Dr 56Drb 56Dt 56E 56Eb 56Ec 56F 56Fb 56Fc 56Fg 56Fh 56Fi 56Fj 56Fk 56Fl 56Fm 56Fn 56Fo 56Fp 56Fq 56Fr 56Fs 56Ft 56Fu 56Fv 56Fw 56Fx 56Fy 56Fz 56Ga 56Gb 56Gc 56Gd 56Ge 56Gf 56Gg 56Gh 56Gi 56Gj 56Gk 56Gl 56Gm 56Gn 56Go 56Gp 56Gq 56Gr 56Gs 56Gt 56Gu 56Gv 56Gw 56Gx 56Gy 56Gz 56H 56Hb 56Hc 56Hd 56He 56Hf 56Hg 56Hh 56Hi 56Hj 56Hk 56Hl 56Hm 56Hn 56Ho 56Hp 56Hq 56Hr 56Hs 56Ht 56Hu 56Hv 56Hw 56Hx 56Hy 56Hz 56I 56Ia 56Ib 56Ic 56Id 56Ie 56If 56Ig 56Ih 56Ii 56Ij 56Ik 56Il 56Im 56In 56Io 56Ip 56Iq 56Ir 56Is 56It 56Iu 56Iv 56Iw 56Ix 56Iy 56Iz 56J 56Ja 56Jb 56Jc 56Jd 56Je 56Jf 56Jg 56Jh 56Ji 56Jj 56Jk 56Jl 56Jm 56Jn 56Jo 56Jp 56Jq 56Jr 56Js 56Jt 56Ju 56Jv 56Jw 56Jx 56Jy 56Jz 56K 56Ka 56Kb 56Kc 56Kd 56Ke 56Kf 56Kg 56Kh 56Ki 56Kj 56Kk 56Kl 56Km 56Kn 56Ko 56Kp 56Kq 56Kr 56Ks 56Kt 56Ku 56Kv 56Kw 56Kx 56Ky 56Kz 56L 56La 56Lb 56Lc 56Ld 56Le 56Lf 56Lg 56Lh 56Li 56Lj 56Lk 56Ll 56Lm 56Ln 56Lo 56Lp 56Lq 56Lr 56Ls 56Lt 56Lu 56Lv 56Lw 56Lx 56Ly 56Lz 56M 56Ma 56Mb 56Mc 56Md 56Me 56Mf 56Mg 56Mh 56Mi 56Mj 56Mk 56Ml 56Mm 56Mn 56Mo 56Mp 56Mq 56Mr 56Ms 56Mt 56Mu 56Mv 56Mw 56Mx 56My 56Mz 56N 56Na 56Nb 56Nc 56Nd 56Ne 56Nf 56Ng 56Nh 56Ni 56Nj 56Nk 56Nl 56Nm 56Nn 56No 56Np 56Nq 56Nr 56Ns 56Nt 56Nu 56Nv 56Nw 56Nx 56Ny 56Nz 56O 56Oa 56Ob 56Oc 56Od 56Oe 56Of 56Og 56Oh 56Oi 56Oj 56Ok 56Ol 56Om 56On 56Oo 56Op 56Oq 56Or 56Os 56Ot 56Ou 56Ov 56Ow 56Ox 56Oy 56Oz 56P 56Pa 56Pb 56Pc 56Pd 56Pe 56Pf 56Pg 56Ph 56Pi 56Pj 56Pk 56Pl 56Pm 56Pn 56Po 56Pp 56Pq 56Pr 56Ps 56Pt 56Pu 56Pv 56Pw 56Px 56Py 56Pz 56Q 56Qa 56Qb 56Qc 56Qd 56Qe 56Qf 56Qg 56Qh 56Qi 56Qj 56Qk 56Ql 56Qm 56Qn 56Qo 56Qp 56Qq 56Qr 56Qs 56Qt 56Qu 56Qv 56Qw 56Qx 56Qy 56Qz 56R 56Ra 56Rb 56Rc 56Rd 56Re 56Rf 56Rg 56Rh 56Ri 56Rj 56Rk 56Rl 56Rm 56Rn 56Ro 56Rp 56Rq 56Rr 56Rs 56Rt 56Ru 56Rv 56Rw 56Rx 56Ry 56Rz 56S 56Sa 56Sb 56Sc 56Sd 56Se 56Sf 56Sg 56Sh 56Si 56Sj 56Sk 56Sl 56Sm 56Sn 56So 56Sp 56Sq 56Sr 56Ss 56St 56Su 56Sv 56Sw 56Sx 56Sy 56Sz 56T 56Ta 56Tb 56Tc 56Td 56Te 56Tf 56Tg 56Th 56Ti 56Tj 56Tk 56Tl 56Tm 56Tn 56To 56Tp 56Tq 56Tr 56Ts 56Tt 56Tu 56Tv 56Tw 56Tx 56Ty 56Tz 56U 56Ua 56Ub 56Uc 56Ud 56Ue 56Uf 56Ug 56Uh 56Ui 56Uj 56Uk 56Ul 56Um 56Un 56Uo 56Up 56Uq 56Ur 56Us 56Ut 56Uv 56Uw 56Ux 56Uy 56Uz 56V 56Va 56Vb 56Vc 56Vd 56Ve 56Vf 56Vg 56Vh 56Vi 56Vj 56Vk 56Vl 56Vm 56Vn 56Vo 56Vp 56Vq 56Vr 56Vs 56Vt 56Vu 56Vv 56Vw 56Vx 56Vy 56Vz 56W 56Wa 56Wb 56Wc 56Wd 56We 56Wf 56Wg 56Wh 56Wi 56Wj 56Wk 56Wl 56Wm 56Wn 56Wo 56Wp 56Wq 56Wr 56Ws 56Wt 56Wu 56Wv 56Ww 56Wx 56Wy 56Wz 56X 56Xa 56Xb 56Xc 56Xd 56Xe 56Xf 56Xg 56Xh 56Xi 56Xj 56Xk 56Xl 56Xm 56Xn 56Xo 56Xp 56Xq 56Xr 56Xs 56Xt 56Xu 56Xv 56Xw 56Xx 56Xy 56Xz 56Y 56Ya 56Yb 56Yc 56Yd 56Ye 56Yf 56Yg 56Yh 56Yi 56Yj 56Yk 56Yl 56Ym 56Yn 56Yo 56Yp 56Yq 56Yr 56Ys 56Yt 56Yu 56Yv 56Yw 56Yx 56Yy 56Yz 56Z 56Za 56Zb 56Zc 56Zd 56Ze 56Zf 56Zg 56Zh 56Zi 56Zj 56Zk 56Zl 56Zm 56Zn 56Zo 56Zp 56Zq 56Zr 56Zs 56Zt 56Zu 56Zv 56Zw 56Zx 56Zy 56Zz

12. **Lampides boeticus (Linnaeus,1767)** (Lycaenidae) Synonym(s): *boeticus* Linnaeus,1767; *damoetes* Fabricius,1775; *coluteae* Fuessly,1775; *pisorum* Fourcroy,1785; *boedicus* Borkhausen,1788; *#baeticus* Latreille,1809; *armeniensis* Gerhard,1886; *bagus* Distant,1886 Range (in codes): Ae AF AL AM AZ Ba BE BG BH B-H BY CH CN Co Cr CY DE DK DZ EG ES FR GG GR HU IL IN IQ IR IT JO Kab Kbb KG KK KW LB Ld LY MA MK MN MT NL OM Pag PK Cp PT QA Rd RO RU SA Sa Si SK Sm So Sr SW SY TJ TM TN TR UA AE UZ YE YU Cw Dv Smt H-W Sur Ssx Ken Cy Ao Mu18 Ci He Ket DsA Tls TrA Cp T-S Ab Ak B-A Bk Brz Bu By Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm PG Vu Dmp PH Ala Bab Bal Bat Bas Bil Boh Bon Bur Bus CagSul Cal Cam CmL CmM Cat Ceb Cts Cuy Din Dum Gui Hom Jol Ley Lub Luz Mar Mas Mdo Mno Neg Pal Pan Pao Pol Rom Sam Sar Sga Sia Sib Siq Sis Stu Tab MW Zom ZA Tva Lpo Spb Lj Mdk Kru Pma Pf Nta Kzu Ptb Fre Gau Pre Jh Brn Mpu US Pa Hf TH CMA Cuo Cu07 C12 Lmp Sgk Hya PSu Nst Chw Ths Sya Bnk MY Lkw IN Ass MM VN Hw SD91 SD119 Bgd Cc SO Zai Ad DZ Ah Agi Anna Orn Sbd Ges Ng Jla Lgh Kab Hr BlM 01 02 03 04 05 06 07 08 09 10 12 13 14 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 37 39 40 42 44 45 46 47 48 49 50 51 52 53 56 58 60 62 63 64 65 70 71 72 73 76 05A 06B 06C 06D 06F 06K 06Kb 06P 06R 06Rl 07B 07C 13A 13Ab 13Ae 13Af 13Ax 13F 13G 13Ga 13Gb 13Gv 13Gw 21L 21Le 21N 21Nb 21O 23C 23Cc 23I 23Ib 23M 27C 27Cb 30B 30Bb 30Bk 30Bf 30D 30Dt 31F 31B 31A 31L 31La 31K 31Ka 32C 32D 33B 33C 33E 33H 36F 36Fb 40D 44E 46G 46Gf 46L 48A 48Ak 48L 49E 49Ea 56B 56F 58G 58Gi 58Gj 62E 62F 63D 65B 65Bk 65Bx 65D 65De 65DI 65Do 65Dn 65E 65F 65Fc 65Fe 65Fm 65Fg 65Fh 65Fj 65Fp 65Fz 65G 65Gb 65Ge 65K 65Kg 65Ks 65N 65Ne 65Np 65Nm 72E 72Ec 73C 73Ce 73D 73Df 76B 76Ba 76C
13. **Lycaena (s.str.) phlaeas (Linnaeus,1761)** (Lycaenidae) Synonym(s): *phlaeas* Linnaeus,1761; *virgaureae* Fourcroy,1785 *nec* Linn.,1758; *eleus* Fabricius,1798; *aestivus* Zeller,1850; *schmidtii* Gerhard,1853 Range (in codes): Ad Ae AF AL AM Ao As At AT Aty AZ Ba BE BG BY CH Cm CN Co Cr CY CZ DE DK EE ES FI FR GB GG GR HU IE IL IN IQ IR IT JO KG Kgs KK Kmt Ku LB Ld LT LU LV MK MN MT NL NO PK PL PT Rd RO RU SA Sa SE Si SK Sm So Sr SY Ti TJ Tk TM TR UA Ui Uk VI YE YU Cw Dv Smt Mu18 Bn Cy LY H-W Sur Ssx Ken MA DZ TN Pm Bik Ci Bl Ca Cp Sau Tar DsA Ax TrA Ka TeA Ket T-S Pes Mre Mus Krl JP US Cf UG ZR ET Md Mon Abt CA Msc Ab Ak B-A Bk Brz Bu By Es Fa Gh Gor Ha Hz Il Kaz Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Prj Us Pa Hf Sml Arr Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm US Aks Cf Cnt Col Dw Ge Id Idp Iln Io Kan Knt Mai Mch Mis Mns Mon Mrl Msc NCa NDK NMx Neb Nh Nje Ny Oh Ok Org Pns RDi SDk Tnn Ut Vi Vr Wy Um Adu Bgd Cc Msw Qba Bhh Gha Azr Rbt Ges Ng Jla Hr BlM 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 68 69 71 72 73 74 76 78 80 81 04D 04Db 05A 06B 06D 06G 06K 06P 06R 06Rd 06V 06Z 13A 13Ab 13Ac 13Af 13Ax 13B 13Bg 13F 13F3 13G 13Ga 13Gö 13Gg 13Gv 13Gm 13Go 13Gs 13Gü 13Gy 13Gw 21L 21Le 21N 21Nb 23C 23Cc 23D 23I 23Ia 23Ib 23E 23M 25F 25Fa 27C 27Cb 30B 30Bk 30D 30Dt 31A 31Aa 31C 31Cb 31F 31K 31Ka 31L 31La 31M 33A 33K 35T 35Td 36D 36Db 36F 36Fb 38H 38Hc 39C 44F 44Fb 44L 44Lc 45L 45La 46F 48A 48Aa 48Ak 48D 48F 48L 49E 49Ea 49F 49Fb 56F 58G 58Ga 58Gj 58Gi 60H 62F 63D 65B 65Bk 65Bn 65Bn1 65Bx 65D 65De 65Dk 65Dm 65Do 65Dr 65Drb 65Dt 65Dw 65E 65Eb 65Ec 65F 65Fc 65Fd 65Fe 65Fg 65Fn 65Ff 65Fj 65Fi 65Fh 65Fi 65Fh 65Fe 65Fm 65Fj 65Fü 65Fp 65Fz 65G 65Gf 65Gp 65Gm 65Gu 65Gz 65Gb 65K 65Kg 65Kb 65Kc 65Kl 65Kö 65Kü 65N 65Nb 65Np2 65Np5 65Np7 65Nr3 65Nr6 65Nm 66A 72E 72Eb 72Ec 72Eh 72Ei 72Ek 73A 73C 73Cd 76C 76D 76Da 76Dc 79B 79Ba
14. **Plebejus (Kretania) carmon (Gerhard,[1851])** (Lycaenidae) Synonym(s): *carmon* Gerhard,[1851, November]; *eurypilus* Freyer,[1851,December]. Range (in codes): AM AZ Cc Arr GG Smt Akh GR Sms IL Pa IR LB RU Kr SY TR 01 02 03 04 05 06 07 08 12 13 14 16 18 19 21 23 24 25 26 27 28 29 30 31 32 33 35 36 38 42 44 46 47 48 49 50 51 56 58 60 62 63 64 65 66 69 70 71 72 73 74 76 79 01H 01K 04D 04Db 05A 06B 06C 06D 06K 06R 06Rd 06V 06Z 07A 07Al 13A 13Ac 13Ad 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Ba 13C 13Cd 13Cf 13G 13Gv 13Gw 21N 21Nb 21L 21Le 21O 23Cc 23I 23Ia 23Ib 24E 24Ea 25F 25Fa 25Fb 25Fc 27B 27C 30A 30B 30Bb 30Bk 30Br 30C 30D 30Dt 30S 30Sf 35Sb 38C 38Ca 42D 42De 42H 42X 42Xa 44E 44I 44La 44Lb 44Lc 44O 44Od 46G 46Gf 49E 49Ea 49F 49Fb 56B 56F 58C 58Gd 58Gi 63D 63H 63M 65B 65Bk 65Bo 65Bx 65D 65De 65Dd 65Dda 65Di 65Do 65E 65Eb 65F 65Fc 65Fg 65Fi 65Fh 65Fe 65Fm 65Fj 65Fü 65Fp 65Fz 65G 65Gf 65Gp 65Gm 65Gu 65Gz 65Gb 65K 65Kg 65Kb 65Kc 65Kl 65Kö 65Kü 65N 65Nb 65Np2 65Np5 65Np7 65Nr3 65Nr6 65Nm 66A 72E 72Eb 72Ec 72Eh 72Ei 72Ek 73A 73C 73Cd 76C 76D 76Da 76Dc 79B 79Ba
15. **Polyommatus (Aricia (s.str.)) agestis ([Denis & Schiffermüller],1775)** (Lycaenidae) Synonym(s): *medon* Hufnagel,1766 *nec* Linn.,1763; *alexis* Rottentburg,1775 *nec* Poda,1761; *agestis* [Denis & Schiffermüller],1775; *astrarche* Bergsträßer,[1779]. Range (in codes): AL AM Ao At AT AZ Ba BE BG B-H BY CH CN Co Cr CZ DE DK FR GB GG GR ES Mu HU HV IL IQ IR IT JO KG KK Ku LB LT LU MK MT NL PL Rd RO RU SE Si SK Sm So Sr SS SY Tk TM TR T-S UA Ui Uk VI YU Cw Dv Smt H-W Sur Ssx Ken LAT Wn Sau Tar DsA TrA Ax T-S PK Nwf Ci Mre Haz IN Kma Bl Sml Hp Ch CY Ab Sro Msw Qba Ak Elb Th Kp Fa Cc Arr AF Hr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49 50 51 54 55 56 58 60 61 62 63 65 66 68 69 70 71 72 73 75 76 78 81 01H 01G 01D 04D 04Db 05A 06A 06B 06C 06D 06G 06K 06N 06Ne 06R 06Rd 06S 06V 06Z 13A 13Ab 13Af 13Ax 13D 13Da 13E 13Ea 13F 13F3 13G 13Gö 13Gg 13Gs 13Gw 21L 21Le 21Lf 21N 21Nb 21O 25F 25Fa 27C 27Cb 27E 30A 30B 30Bk 30Br 30D 30C 31A 31Aa 31B 31L 31La 33K 33O 36F 36Fb 39C 44E 44F 44Fb 44L 44Lc 44T 45L 45La 46F 46Fc 46Fd 46G 46Gf 48A 48Ak 48Ad 48Ai 48F 49E 49Ea 49F 49Fb 56F 58C 58G 58Gi 63B 63D 63E 63G 63M 65B 65Bk 65Bx 65D 65Dj 65Dk 65Dq 65Dn 65Dr 65E 65Eb 65Ec 65Ed 65F 65Fd 65Fg 65Fh 65Fi 65Fj 65Fk 65Fz 65G 65Ga 65Gb 65Ge 65Gh 65K 65Kl 65Km 65Ku 65N 65Ne 65Ni 65Np 65Np8 65Nm 65Nn 66A 70C 70Cb 72E 72Eb 72Ei 73A 73Ad 73C 73Cd 73D 73Db 76A 76Ac 76Ae 76E 76Ea 76D 76Da 76Dc 76Dg 78D 80C 80E 80G
16. **Polyommatus (s.str. (Cyaniris)) antiochenus (Lederer,1861)** (Lycaenidae) Synonym(s): *antiochena* Lederer,1861 Range (in codes): He IL Pa LB SY TR 01 13 21 27 31 33 46 49 56 65 73 80 01H 01L 01Lb 13F 13G 13Gt 21L 21Lf 21Ld 21N 21Nb 27C 31A 31Aa 31Cb 31F 31Fb 31L 31La 31M 33A 33K 46F 46Fc 46H 46He 49F 49Fb 49Ff 56D 56Db 56Dg 56F 65D 65Dn 65Do 65Dq 65Ds 65Dt 65Dv 73D 73Df 80C

- 17. Polyommatus (s.str. (Sublysandra)) cornelius (Freyer,[1850])** (Lycaenidae) Synonym(s): *cornelius Freyer,[1850]*; *cornelia Gerhard,[1851]*; *candalus Herrich-Schäffer,[1851]*; *zuleikae Pfeiffer,1932*; *eberti Koçak,1979*; *subtilis Pages & Charmeux,1992*. Range (in codes): TM TR AF 01 02 03 05 06 07 11 14 15 16 18 19 20 21 24 25 26 27 29 30 31 32 33 37 38 42 43 44 46 47 50 51 55 56 58 60 62 63 64 66 70 71 73 01L 01Lb 05A 06A 06B 06C 06G 06K 06R 06Rd 06V 06Z 21L 21Le 21N 21Nb 33K 33O 46F 46Fc 46G 46Gi 66A 70A
- 18. Polyommatus (s.str.) icarus (Rottemburg,1775)** (Lycaenidae) Synonym(s): *argus Poda,1761 nec Linn.,1758*; *alexis Scopoli,1763 nec Pda,1761*; *thetis Esper,1777 nec Dru.,1773*; *icarus Rottemburg,1775*; *pampholyge Bergsträßer,1779*; *candybus Bergsträßer,1779*; *candiope Bergsträßer,1779*; *candaon Bergsträßer,1779*; *oceanus Bergsträßer,1779*; *fusciole Fourcroy,1785*; *icarinus Scriba,1795*; *pusillus Gerhard,1851*; *celina Austaut,1879*; *neglectus Stradomsky & Arzanov,1999*. Range (in codes): Ae AF AL Ao AT Ba BE BG B-H BY CH CN Co Cr CY CZ DE DK DZ EE ES FI FR GB GR HU HV IE Ii IL IQ IR IT JO KG KK Ku LB LT LU LV MA MK MN MT NL NO PK PL PT Rd RO RU Sa SE Si SK Sm So Sr SS SY TJ TM TN TR T-S Tv UA Ui Uk Us UZ VI YU Cw Dv Smt H-W Sur Ssx Ken Mu Mu18 Bn At Kts Sau Tar Buc Bkb Mrk Ssn Ktm Nym Sb DsA TrA KuA TeA Ax Ii Kuz Sli Bl Ci Nwf Kmt Sju Prj Pa Hf Cc Kc Pe Ir Irk Bc Arr Ab Sro Jal Shf Msw Swa Sgl Mdy BtNa Nra Abe Sbd Lbs Ges MA Tgr Rbt Azr LY Cy Hr BLM Ng Kab Ca 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 75 76 78 80 81 01A 01C 01H 01G 01F 01K 04D 04Db 05A 06A 06B 06C 06D 06E 06G 06H 06K 06N 06P 06R 06V 06Z 12A 12Ai 13A 13Ab 13Ad 13Af 13Ax 13B 13Ba 13Bg 13D 13Da 13E 13G 13Ga 13Gc 13Gv 13Gü 13Gy 13Gw 14I 14Ib 18F 21L 21Le 21N 21Nb 21O 27C 27Cb 30B 30Bb 30Bk 30Br 31A 31Aa 31B 31E 31F 31L 31La 31K 31Ka 33A 33C 33K 33O 36F 36Fb 38H 38Hc 39C 44L 44Le 44O 44Oc 45L 45La 46G 46Gf 46E 46Eb 46F 48A 48Aa 48Ad 48D 48F 48L 49E 49Ea 49Ed 49F 49Fb 49Ff 56F 56Fc 56Fi 58G 58Gj 58Gi 58Gk 58R 58Rb 63D 63E 65B 65Bk 65Bx 65D 65Dd 65Dda 65Dj 65Dk 65Dr 65Drb 65Dm 65Do 65Dn 65E 65Ea 65Eb 65F 65Fc 65Gf 65Fe 65Fh 65Fj 65Fi 65Fm 65Fq 65Fr 65Fü 65Fu 65Fx 65Fi 65Fw 65Fz 65G 65Ga 65Gb 65Ge 65Gd 65Gf 65Gh 65H 65Ha 65K 65Ka 65Kb 65Kc 65Kg 65Kl 65Ks 65Ks 65Kö 65Ku 65Ky 65Ky1 65M 65Mc 65Md 65N 65Ne 65Np 65Np2 65Np4 65Np7 65Nr3 65Ns 65Nm 66A 72E 72Eb 72F 73A 73Ad 73Ad2 73D 73Db 73Df 75F 75Fi 76A 76Ac 76Ae 76B 76Ba 76Bf 76Bh 76C 76D 76Da 76Dg 76E 76Ea 78D 78Da 80B 80Bd 80C 80E
- 19. Tarucus (s.str.) balkanicus (Freyer,[1843])** (Lycaenidae) Synonym(s): *balkanicus Freyer,[1843]*; *#balcanica Howarth & Povolny,1976*. Range (in codes): AE AF NG Jla AL Cc AM AZ BG BH Cr CY Dh DZ Gha Bsk EG EH GG GR Hd IL IN IQ Nsr Agh Bgd IR Ab JO KK KW LB LY MA MK MR NE Nf NG Nj OM PK QA SA SD SI SY TJ TM TN TR UG UZ YE Bl Bol Nwf Pes Elb Th Kp 01 02 03 05 06 07 08 10 12 13 16 17 20 21 23 25 27 30 33 35 36 39 44 46 48 56 59 60 62 65 67 70 71 72 73 78 80 01A 01K 02E 05A 06R 06Rd 13C 13Cf 13Cg 21L 21Le 21N 21Nb 21O 23C 23Cc 23D 23Dc 27C 27Cb 30B 30Bf 33A 33C 36F 36Fb 39C 44I 44L 44Le 46G 46Gf 48D 48L 56F 63D 65D 65Dk 65Dv 72E 72Eb 72F 73C 80B 80Bc

Papilionidae

- 20. Archon apollinaris (Staudinger,[1892])** (Papilionidae) Synonym(s): *apollinaris Staudinger,[1892]*; *pallidior Spuler,1892*; *#mardina Stichel,1907*. Range (in codes): Dk IQ Mos IR Lo Km TR 13 21 23 24 30 47 49 56 62 65 73 13F 13F33 13F35 21L 21Le 21K 21N 21Nb 23E 30A 30Aa 47C 49E 49Ea 49Ec 49Ef 49F 49Fd 56F 56Fa 56Fb 56Fg 56G 62G 65D 65Dh 65Dk 65Dl 65Dn 65Dp 65Dr 65Drb 65F 65F1 65F1 65Ff 65Fg 65Fy 65Fz 65K 65Ka 65Kb 65Kd 65Kg 65Nc 65Nc 65Nk 65Nl 65Nb 65Nk 65No 65Np 65Nm 73A 73Ae 73Af 73Ak 73D 73Da 73Db 73Df
- 21. Zerynthia (Allancastris) deyrollei (Oberthür,1869)** (Papilionidae) Synonym(s): *deyrollei Oberthür,1869*; *eisneri Bernardi,1970*; *lycaoniae Eisner & Wagnener,1974*; *#flavomaculata Verity,1905*; *#ochracea Verity,1905*; *#obscurior Verity,1905*; *#subflava Schultz,1908*; *#deflexa Schultz,1908*; *#charis Schultz,1908*; *#separata Sheljuzhko,1927*. Range (in codes): He IL Js Pa IQ Mos Bgd Slh Tkr IR Ab Oru Jal Kd Km JO LB Bsa Baa Aiz Zah Bmd SY Dms TR 01 02 03 05 06 07 12 13 14 15 18 19 21 23 24 25 26 27 28 29 30 31 32 33 37 38 42 43 44 46 47 49 50 51 56 58 62 63 64 65 66 68 70 71 73 80 01H 01K 03A 03D 03N 05A 06A 06B 06D 06G 06H 06K 06P 06R 06Rd 06S 06V 06Z 07A 07Ad 07Ak 13B 13Ba 13F 13F35 13G 13Ga 19C 19D 21L 21Le 21Lf 21Ld 21N 21Nb 23I 23Ib 23E 23M 25F 25Fa 27B 27C 27Cb 29A 29F 30D 30Dh 30Dt 30Dx 31A 31Aa 31B 31K 31Ka 31L 31La 32A 32C 32D 32E 32I 33E 37Y 38B 38C 38Cb 38L 42B 42D 42D 42Db 42Dc 42E 42I 42R 42X 42Xa 43K 44A 44Aa 44E 44Ej 44L 44Lb 44Le 46F 46Fc 46K 47D 47E 47F 47H 49E 49Ea 49Ec 49Ef 49F 49Fd 49Fe 50G 50Ga 51D 51Da 51Dc 56F 56Fa 56F1 56Fg 56Fh 56Fy 58C 58E 58G 58Ga 58Gi 60H 60Hb 62E 62F 62H 63D 63Na 64F 65D 65Dk 65Dl 65Dm 65Dn 65Dr 65Drb 65Dp 65F 65Fe 65Fb 65Fd 65Ff 65Fg 65Fh 65Fi 65Fk 65Fl 65Fq 65Fm 65K 65Ka 65Kd 65Kl 65Kö 65N 65Nc 65Np 65Np2 65Nm 66A 66P 68B 70C 70Cd 73A 73Ab 73Ae 73Ak 73C 73Cd 73D 73Da 73Db 79B 79Ba 80A 80B 80Bc 80C

Pieridae

- 22. Colias (Eriocolias) crocea (Fourcroy,1785)** (Pieridae) Synonym(s): *crocea Fourcroy,1785*; *pyrenaica Groum-Grshimailo,1893*. Range (in codes): AL AM Ao AT AZ Az Ba BE BG B-H BY CH Co Cr CY CZ DE DK DZ EG ES FI FR GG GR HG HV IQ IR IT Kb Kr LB LT LU LY LV MA MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr SS SY Teb TR TN UA VI YU KG Aq Or Uk Vi Bs Cb Kt Rk Cw Dv Smt H-W Sur Ssx Ken Mt Sof Ril Syr Cy Rg Rtc Bgz Vrn Slv Sjn Trb Mkl Mst Ko JO He IL Ab Ak Fa Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRE Cas Cc Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Mu18 Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Pa Hf SA TD SD Agh Cc Arr Ab Khy Oru Jal Ak Shf Msw Qba Sro Mz Dju Tth Ess Tlm Saia Orn Agi Blid Ges Dje Bsa Ogl Omy Tou Bsk Ktr Khh BtNa Tun DhM Tgr Phv Ceg Cn Azr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 68 69 70 71 72 73 74 75 76 77 78 79 80 81 04D 04Db 05A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06Rb 06Rd 06V 06Z 12A 12Ab 12E 12Eb 13A 13Ab 13Ac 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Ba 13Bg 13C 13Cd 13D 13Da 13E 13Ea 13G 13Ga 13Gö 13Gg 13Gk 13Gs 13Gü 13Gv 13Gy 13Gw 13Gz 21L 21Le 21Ld 21La 21Nb 21Nh 21O 23I 23Ib 23E 23M 25F 25Fa 25Fb 25Fc 27C 27Cb 30B 30Bb 30Bk 30Br 30D 30Df 31A 31Aa 31F 31Fb 31K 31Ka 31L 31La 33A 33C 33K 33O 35T 35Te 36D 36Db 36F 36Fb 38H 38He 39C 44A 44Aa 44Ab 44F 44Fb 44L 44Le 45L 45La 46F 46Fc 46Fe 47E 47F 48A 48Aa 48Ak 48F 49E 49Ea 49F 49Fb

49Fe 49Ff 56D 56Dc 56Dh 56Dg 56F 58G 58Ga 58Gd 58Gi 58Gk 58R 58Rb 63D 63E 65C 65B 65Bc 65Bi 65Bk 65Bn 65Bn1 65Bo 65Bx 65D 65Da 65Dc 65Dc1 65Dd 65Dda 65Df 65Di 65Dl 65Dlc 65Dn 65Do 65Dr 65Drb 65Dt 65Dv 65E 65Eb 65Ec 65Ec 65F 65Fb 65Fc 65Fc 65Fd 65Fe 65Fg 65Fh 65Fi 65Fj 65Fm 65Ft 65Fx 65Fy 65Fw 65Fz 65G 65Ga 65Gf 65Gg 65Gi 65Gl 65Gn 65Go 65Gs 65I 65K 65Kl 65Ka 65Ks 65Ku 65Kz 65Kg 65Kw 65Ky 65Ky1 65M 65Mb 65Mc 65Md 65N 65Nb 65Nc 65Nc 65Nk 65Np 65Np1 65Np5 65Np7 65Nr6 65Nr7 65Ns 65Ns1 65Nj 65Nm 70C 70Cb 72E 72Eb 72Eg 72Ei 73A 73Ad 73Ad2 73D 73Da 73Db 73Df 75F 75Fi 76A 76Ab 76Ac 76B 76Ba 76E 76Ea 80E 80Ea

23. **Pieris (Artogeia) mannii (Mayer,1851)** (Pieridae) Synonym(s): *mannii* Mayer,1851; *manni* Verity,1908; *alpigena* Verity,1911; *roberti* Eitschberger & Steiniger,1973. Range (in codes): AL AT BG B-H CH CZ ES Mlg Grn Alm Mu Mdr Hue Gna Bar Ter FR GR HU HV IT Kr MA Tgz MK RU Co Sa Si SK SS TR Cc UA YU Mt Ko Sjn Mst IR Ak Shf Mz Gls 01 02 03 06 07 08 10 11 13 14 17 18 21 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 42 43 44 45 46 47 48 49 50 51 53 56 61 62 65 67 69 73 74 75 76 78 80 13A 13Ab 13Ax 13B 13Bg 13C 13Cd 13G 13Gw 21L 21Le 21N 21Nb 25F 25Fa 25Fb 30D 30Dt 36F 36Fb 44L 44Le 46F 46Ff 46G 46Gf 49E 49Ea 49F 49Fb 56F 65D 65M 65Md 65N 65Nj 65Ns1 65Nm 73D 73Df 76D 76Da
24. **Pieris (Artogeia) rapae (Linnaeus,1758)** (Pieridae) Synonym(s): *rapae* Linnaeus,1758; *nelo* Bergsträßer,1780; *metra* Stephens,1827; *alpica* Rossi,1929. Range (in codes): Ae AF AL AT Az BE BG BH B-H BY Ch CH Ci CN Cn Co Cr CY CZ DE DK DZ EE ES Fi FR GB Gg GR Hk HU HV IE IN IQ IR IS IT JO JP KG KK Kp KW Ld Lt LU LV MA Mc Md MK MN MT Nf Nj NL NO OM PK Pl PT QA Rd RO SA Sa SE Si SK SS SY TJ TM TN TR UA UZ YU Aa Am Ao At Aty Ax Ba Bs Cb Ikc Ir Ka Kg KP Kr KuA Kw Ky Mn No Om Pe Pr Pt Pw RU Sb Sj Sm So Sp Sr St TeA Tk Tm TrA Tt Us Vi Cw Dv Smt H-W Sur Ssx Ken Mt Ko Ril Sjn Mst Mkl T-S Um Bl Ci Bn DsA Sju Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRE Cas Ces Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Mu18 Nrr Ore Pr Rio Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Lug Ple San US MX Aks Alb Arz Cf Cnt Col Dw Fl Ge Id Idp Ilm Io Kan Knt Lou Mai Meh Mis Mns Mon Mrl Msc Mss NCa NDk NMx Ne Neb Nh Nje Ny Oh Ok Org Pns RDi SCA SDk Tnn Tx Ut Vi Vr WVi Wc Ws Wy AU Hw Agh Pa Hf TW Kml JP RU Am Us Sh TW VN D-I Ldo GG AZ Kir AM Cc Arr Ab Jal Mz Gls Kh Koh Nra Bhh Rbt Tbl Sok Ess Tlm Saia Orn Agi Blid Ges Ogl Btina Cst Tun Tgr Tou Bie Gle Azr Ng Hr BLM Kab AU QAU NSW Syd SAU Cai 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 73 74 75 76 77 78 79 80 05A 06A 06B 06C 06G 06H 06K 06N 06P 06R 06Rd 06V 06Z 07A 07Ad 07B 07Bb 07M 07Mb 13F 13F35 13G 13Gc 13Gs 13Gü 13Gy 13Gw 21L 21Lf 21N 21Nb 21Nh 23C 23Cc 23D 23Dc 23I 23M 23G 25F 25Fa 25Fb 25Fc 27C 27Cb 29A 29Ac 30B 30Bb 30Bk 30D 30Dt 31A 31Aa 31F 31K 31Ka 31L 31La 31O 33A 33C 33K 33O 36D 36Db 36F 36Fb 39C 42D 42Dc 44F 44Fb 44L 44Lc 44O 44Oi 45L 45La 46F 48A 48Aa 48Ak 48Ab 48D 48F 49E 49Ea 49F 49Fb 56F 58G 58Gk 58Gj 58Gi 63D 63E 65B 65Bk 65Bx 65D 65Dk 65Do 65G 65Ge 65Gt 65H 65He 65E 65Eb 65F 65Fd 65Fh 65Fg 65Fn 65Fr 65K 65Kb 65N 65Nc 65Kl 65Ku 65M 65Md 66A 73A 73Ad 73Ak 73D 73Da 73Df 75F 75Fi 76B 76Bb 76Bf 76Bh 76C 76D 76Da 76E 76Ea 78D 78Da

Satyridae

25. **Brintesia circe (Fabricius,1775)** (Satyridae) Synonym(s): *circe* Fabricius,1775; *proserpina* Denis & Schiffermüller,1775; *maga* Fruhstorfer,1909; *venefica* Fruhstorfer,1909; *gabala* Gaillard,1959; *maladettiae* Varin,1962. Range (in codes): AL AT BE BG BY CH CZ DE ES Mu FR GR HU IT Kr LU PL PT RO RU Sa Si SK SR TR Cc AZ Len UA YU IR Ha Ab Oru Qba Ak IY S-T 01 03 05 06 07 08 10 11 13 15 16 17 18 20 21 22 24 25 27 29 30 31 32 33 34 35 36 37 39 42 43 45 46 47 48 51 53 56 58 60 62 64 65 67 70 71 72 73 76 78 01K 05A 06B 06D 06N 06R 06Rd 06V 06Z 07A 07Ah 07B 21L 21Lf 21N 21Nb 24E 24Ea 27C 27Cb 29A 29Ac 31F 36F 36Fb 39C 44F 44Fb 45L 45La 46F 46G 46Gf 56F 58R 58Rb 65K 65Kg 72E 72Ec 78D 78Da 79B 80A 80B 80Bd 80C 80E 80Ea
26. **Coenonympha (s.str.) pamphilus (Linnaeus,1758)** (Satyridae) Synonym(s): *pamphilus* Linnaeus,1758; *menalcas* Poda,1761; *nephele* Hufnagel,1766; *marginata* Heyne,1894; *orantia* Fruhstorfer,1908; *scota* Verity,1911; *infrarasa* Verity,1926; *juldiscula* Verity,1926; *asiaemontium* Verity,1926; *euxina* Verity,1926; *posteuxina* Verity,1926; *londonii* Verity,1926; *neolyllus* De Lattin,1950 Range (in codes): Aa AL AM Ao Aq AT Aty AZ Ba BE BG B-H Bs BY Cb CH CN Co CZ Db DE Dg DK EE ES Fe FI FR Ga GB GG GR HU HV IQ IR IT Ju KG Kg KK Kr Ku Kw Ky LB LT LU LV MK Mn NL NO Or PL Pp Psa PT Pw Rk RO RU Sa SE Si SK Sm So Sp Sr SS Tk Tm TM TR T-S Tt Ua Ui Uk UZ VI YU Mu Ma DZ IE Ma MT Om TN Ty DsA Tar Sau Tar Tra Mrk Cw Dv Smt H-W Sur Ssx Ken At Bn Sy Elb Kp Ab Oru Sro Ak Ha Gls Kh Cc Oum Rf Lkr Azr Ifr Dju Tth Rht Tlm Orn Berr Ges Dje BSa Khh Btina Lbs Cst DhM Dzc Hrh Ght 01 03 04 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 01G 01H 01K 05A 06A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 12Ai 12B 12E 12Eb 13A 13Ab 13Ac 13Ax 13B 13Ba 13Bg 13C 13Cf 13D 13Da 13F 13G 13Ga 13Gü 13Gg 13Gv 13Gw 14I 14Ib 21L 21Le 21Lf 21Ld 21N 21Nb 21Nh 21O 23D 23Dc 23I 23Ia 23Ib 23E 25F 25Fa 25Fb 25Fc 30A 30Ab 30B 30Bb 30Bk 30D 30Da 30Df 33K 36D 36Db 36F 36Fb 38H 38Hc 39C 44A 44Aa 44L 44Lb 44Lc 44O 44Oi 46F 46Fe 46Fd 46Ff 46G 46Gf 48D 48F 49E 49Ea 49F 49Fb 49Fe 49Ff 56B 56F 58C 58G 58Gd 58Gi 58K 58N 58R 58Rb 62D 62H 62G 62Ga 62F 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Dc 65Dk 65Di 65Dl 65Dm 65Do 65Dr 65Dt 65E 65Eb 65Ec 65Ec 65Ed 65F 65Fb 65Fc 65Fd 65Fe 65Fg 65Fh 65Fi 65Fj 65Fq 65Ft 65Fz 65G 65Ga 65Gd 65Gz 65K 65Kg 65Kl 65Ks 65Ks 65Ky 65Ky1 65Kw 65M 65Md 65N 65Nc 65Nl 65Np 65Nr2 65Nr6 65Ns 65Nm 66A 66P 66Pa 72F 76B 76Bf 76Bh 78D 78Da 80B 80Bc
27. **Coenonympha (s.str.) saadi (Kollar,[1849])** (Satyridae) Synonym(s): *saadi* Kollar,[1849]; *iphias* Eversmann,1851. Range (in codes): Cc AM IR Ab Ak Msw Zj Fa Elb Th Ha TR Arr IQ 02 12 13 21 23 25 27 30 44 46 47 56 58 62 63 65 72 73 76 12A 12Ab 12B 13C 13Cf 13E 13Ea 13G 13Gv 21K 21L 21Lf 21N 21Nb 21O 21P 23C 23D 23Dc 23I 23Ia 23Ib 23M 30A 30Ab 30B 30Bf 30Bg 30Bo 30Br 30D 30Da 44A 44Aa 44Ac 44E 44L 46G 46Gi 47D 47F 47H 56A 56B 56F 58G 58Ga 58Gi 62D 62E 62F 62H 63E 63M 65D 65Dc 65Dc1 65Dd 65Dda 65Dk 65Di 65Dle 65Do 65Doa 65Dn 65Fz 72E 72Eb 72Ec 72Ed 72Ef 72Ek 72F 73A 73Ac 73Ae 73C 73Cd 73Ce 73D 73Df 76B
28. **Hyponephele (s.str.) lupina (Costa,[1836])** (Satyridae) Synonym(s): *lupina* Costa,[1836] Range (in codes): At Bn Ae AF AL AM Ao AZ Ba B-H Ch CR CY CZ DZ ES Mu FR GG GR HU Hr HV IL IQ IR IT JO Kg KK LB MA MK MN PK PT Rd RU Si SK Sm Sr SS TJ TM TR UA UZ VI YU Uk Aq Ky Syr Tm Db Aa Tk Ka Kt Ty Pw Sp Mn Or Bs Sm Kg Sau Mrk Tar DsA Iid T-S SY Tls CN Ui Il Ku Sju Hr Ax Kh Kp Cc Ab Sro Qba Jal Lbs Sbd Abe Dje Ktr

Khh Btna BLM Kab Bl Bnu 01 02 03 04 05 06 07 08 09 10 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32
33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 55 56 58 60 62 63 64 65 66 67 69 70 71 72 73 76 78 80
04D 04Db 05A 06B 06C 06D 06H 06K 06R 06Rd 06V 13A 13Ab 13Ac 13Ad 13Ae 13Af 13Ax 13D 13Da 13G 13Ga
13Gv 13Gw 21K 21L 21Le 21N 21Nb 21O 21P 25F 25Fa 27C 27Cb 31M 36F 36Fb 44F 44Fb 44L 44Lc 44O 44Oi 45L
45La 46F 46G 46Gi 46K 46Ka 48A 48Ab 48Ad 48Ah 48Ae 56F 58R 58Rb 63D 65Bx 65D 65Dc 65Do 65E 65Eb 65G
65Ga 65Gb 65Gd 65Ge 65Gn 65Go 65Gp 65Gs 65F 65Fb 65Fç 65Fe 65Fg 65Fh 65Fj 65Fi 65Fl 65Fr 65Fq 65Fu
65Fü 65Ft 65Fx 65Fz 65G 65Ge 65K 65Kg 65Kl 65Kö 65Kş 65Kü 65Ké 65N 65Nb 65Np 65Np1 65Nr2 65Nr3 65Nm
66A 72E 72Eb 72Eh 72F 73D 73Df 76D 76De 76Dg 80B 80Be

29. **Kirinia (Melike) roxelana (Cramer,[1777])** (Satyridae) **Synonym(s):** *roxelana* Cramer,[1777];
#anatolica Koçak,1989 **Range (in codes):** Ae AL BG Cc Cm CY GR Rd RO RU LB IQ IR Ab Lo TR UA YU SY 01 02
03 05 06 07 08 09 10 11 13 14 15 16 17 19 20 21 22 23 25 26 27 29 30 31 32 33 34 35 38 39 42 43 44 45 46 47 48 49 51
55 56 58 59 60 62 65 66 71 72 73 78 80 01K 05A 06B 06C 06G 06R 06Rd 07B 07Bb 07F 07M 12B 13B 13Ba 13C 13Cf
15A 21L 21Lf 21N 21Nb 21O 21P 23C 23Cc 23D 23Dc 23M 24E 24Ea 27C 27Cb 31M 39C 42D 42Dc 44A 44Aa 44L 45L
45La 46G 46Gf 47D 47Da 47F 47Fa 48A 48Ab 48Ah 48Ae 48Ai 48Ak 48D 48F 49E 49Ea 56A 56B 56F 56Fc 62F
62G 62Ga 65D 65Do 65Dk 65Do 66A 72F 73C 73Cd 73D 73Df 78D 78Da 80A 80B 80Be 80C
30. **Lasiommata megera (Linnaeus,1767)** (Satyridae) **Synonym(s):** *megera* Linnaeus,1767; *caledonia*
Verity,1911; *alticola* Verity,1911; *pseudoadrasta* Stauder,1922; *infrapallens* Verity,1922; *ocellation* Verity,1923;
pallidedepulverata Verity,1923. **Range (in codes):** Ae AL AT BE BG B-H BY CH Co Cr CY CZ DE DK EE ES Mu
Mui8 FI FR GB GR HU HV IE IL IQ Dy IR Ab Qba Jal Ak Msw IT Kp Kr LB LT LU LV MK MT NL NO PL PT Rd RO
RU Sa SE Si SK Sm So Sr SS SY TM TR Cc JO UA VI YU Cw Dv Smt H-W Sur Ssx Ken DZ MA TN Ski Ktr Dja Mkn
Masc Ndr Saia Orn Agi Blid Ges Dje Bsk Btna Lbs Khk Cst Ess Mzg Hrh Ahr Azr Rbt 01 02 05 06 07 08 09 10 11 12
13 14 15 16 17 20 21 22 23 24 25 26 27 28 30 31 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57
58 59 60 62 63 65 66 67 70 71 72 73 74 75 76 77 80 01D 01E 01Ea 01H 05A 06B 06G 06K 06N 06P 06R 06Rd
06S 06Z 13B 13Bg 13G 13Ga 13Gv 13Gk 13Gm 13Go 13Gs 13Gü 13Gw 21L 21Le 21N 21Nb 21P 25F 25Fa 25Fb 27C
27Cb 31K 31Ka 33O 36F 36Fb 39C 44A 44Ab 44L 44Lc 45L 45La 46G 48A 48Aa 48Ad 48Ab 48Ag 48Am 48D 49E
49Ea 56F 63E 65B 65Bk 65Gx 65D 65Dd 65Dda 65G 65Ge 65Gn 65F 65Fe 65Fj 65Fl 65Fq 65Fs 65Ft 65F3 65K
65Kg 65Kö 65N 65Nc 65Np 65Nm 66A 72E 72Eb 72Ed 73A 73Ad 73Ad2 73D 73Db 73Dg 75F 76A 76Ac 76Ad 80E
31. **Melanargia (Turcargia) grumi Standfuss,1892** (Satyridae) **Synonym(s):** *grumi* Standfuss,1892
Range (in codes): TR IR Il Kd Km Bkn Lo Drd Krr Mml Pld 02 13 21 23 30 47 56 63 72 73 13G 21K 21P 21C 21L
21Lf 21N 21Nb 56F 72E 72Eb 72Ec 72Ed 72Ef 72Eg 72Ei 72Ej

Moths

Ctenuchidae

32. **Amata transcaspica Obraztsov,1941** (Ctenuchidae) **Synonym(s):** *transcaspica* Obraztsov,1941 **Range**
(in codes): TR TM Krn I-B Cc AZ 12 21 25 44 58 73 21L 21Ld 21N 21Nb 21Nh 44A 44Ab 44F 58R 58Rc 73A

Deoclonidae

33. **Syringopais temperatella (Lederer,1855)** (Deoclonidae) **Synonym(s):** *temperatella* Lederer,1855;
fuscifasciata Stainton,1867; *ochrolitella* Staudinger,1871; *xenicopa* Meyrick,1920 **Range (in codes):** GR CY TR
LB Bei IL Pa Hf IQ Shq Dia IR Lo 15 20 21 32 35 42 46 47 21L 21Lc 21Ld 21Lf

Ethmiidae

34. ***Ethmia infelix Meyrick,1914** (Ethmiidae) **Synonym(s):** *confusella* Rebel,1901 (*praeocc.*); *infelix*
Meyrick,1914; *kurdistanella* Amsel,1959 **Range (in codes):** TR IQ Ry Hjo Shq 21 47 63 21L 21Lc 47D 63E
35. ***Ethmia similis Sattler,1967** (Ethmiidae) **Synonym(s):** *similis* Sattler,1967 **Range (in codes):** TR IR
Ak Ab Cc 05 21 30 47 65 76 21L 21Lc 30B 65D 76B 76Bh

Gelechiidae

Two different specimens of the genus *Metzneria* couldnot be identified precisely. For that reason, more material is needed.

Geometridae

A single female of *Eupitheciini* couldnot be identified by us. Further material, especially males are needed.

36. ***Campptogramma bilineatum (Linnaeus,1758)** (Geometridae) **Synonym(s):** *bilineata* Linnaeus,1758;
brocatella Fourcroy,1785; *dumetata* Schrank,1802; *bilineararia* Boisduval,1840; *musauria* Freyer,1846;
testaceolata Staudinger,1871 **Range (in codes):** MA TN DZ Orn Clo PT ES Mu FR Co Si IT MT IE GB Sc Sht BE

NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR AZ IQ IR Ab Oru Msw Ak Jal Fa Sse Mz GlS Kh DK NO SE FI EE LV LT RU Ur At MD UA Cm BY AZ Kir Cc Am GG KG TM Kp IL Pa LB Bsa 05 06 10 13 14 16 17 18 21 22 23 28 30 33 34 35 36 38 39 42 44 45 46 48 52 56 57 59 60 65 73 80 05A 06R 06Rb 06Rd 10K 10Ka 13A 13Ab 13Ax 13C 13Cç 13F 13G 13Gd 13Gg 16A 21L 21Lf 28N 30D 30Dx 33G 36D 36Db 44F 44Fb 44L 44Lc 44O 44Oi 48G 48D 52A 56F 56Fa 56Fc 56Fi 56Fn 56Fç 57E 60G 65B 65Bn 65Bni 65D 65Di 65Dlc 65Do 65Doa 65F 65Fd 65Fi 65Fz 65N 65Np 65Nm 73A 73Ad 73Ad2 73D 73Df 80B 80Bc

37. ***Dyscia (Calodyscia) innocentaria (Christoph,1885)** (Geometridae) Synonym(s): *innocentaria* Christoph,1885; *sicanaria* Oberthür,1923; *sicula* Reisser,1940; *#innocentana* Pugaev & Zolotuhin,2006; *#hazroa* Koçak & Kemal,2015 Range (in codes): Co Sa Si IT YU HV AL MK BG GR RU MD UA Cm TR IQ Ama Shq IR GlS Kh TM JO Amm IL Pa Js SY Dms CY Cc Da GG Bjo Lag AZ Kir AM Eri AF KG 01 05 06 07 13 14 16 17 18 20 21 25 35 36 38 42 44 45 46 47 50 56 65 71 13A 13Ab 13Ax 21L 21Lc 56F 65F 65N 65Np 65Np7 65Nm
38. ***Eupithecia venosata (Fabricius,1787)** (Geometridae) Synonym(s): *venosata* Fabricius,1787; *insignata* Hübner,1789; *decussata* Donovan,1799; *comparanda* Vojnits,1981 Range (in codes): MA PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Bjo Mng Lag AZ DK NO SE FI EE LV LT RU Sb MD UA BY PK Swa Klm Sha Ch AF Nu 05 16 21 61 65 05A 16A 21L 21Lc 61K 65D 65Dy 65F 65Fr
39. ***Glossotrophia (Libanonia) sacraria (A.Bang-Haas,1910)** (Geometridae) Synonym(s): *sacraria* A.Bang-Haas,1910 Range (in codes): GR Rd LB Bei TR CY JO IL Pa IQ AF Srb Kab Bm PK TJ Pm IR Shr Fa Sse Com Kz KG Uk 21 31 46 56 21L 21Lc 56F
40. ***Gnopharmia colchidaria (Lederer,1870)** (Geometridae) Synonym(s): *colchidaria* Lederer,1870; *melanotaenia* Wehrli,1938 Range (in codes): TR Cc GG Akh IL Pa TM Kp IQ AZ Kir Nv Dz AM IR Fa Sse PK 21 27 31 46 56 47 21L 21Lc 46G 46Gf 56F
41. ***Gnophos (Dicrognophos) sartatus (Treitschke,1827)** (Geometridae) Synonym(s): *sartata* Treitschke,1827; *syriaca* Thierry-Mieg,1916. Range (in codes): Co Sa Si IT YU AL BG GR Cr Rd TR Cc GG AZ AM LB Bsa RU MD UA Cm BY SY IR Fa Sse IL Pa Mer Car Hf Js CY 05 06 14 16 17 20 21 27 30 31 34 35 42 45 46 56 80 05A 06K 06Kc 16A 21L 21Lc 27E 42B 46G 46Gi 56F 80B 80Bc
42. ***Hyposcotis (Euchrognophos) subtaurica (Wehrli,1934)** (Geometridae) Synonym(s): *#subtaurica* Wehrli,1932; *subtaurica* Wehrli,1934 Range (in codes): TR LB Bei Bsa IL Pa Js CY 21 31 33 46 21L 21Lc 31K 31Ka 31M 46G
43. ***Idaea filicata (Hübner,[1799])** (Geometridae) Synonym(s): *filicata* Hübner,[1799]; *filicaria* Duponchel,1830; *levequei* Leraut,2003 Range (in codes): ES Mu FR Co Sa Si IT CH AT CZ SK HU RO YU AL BG GR Cr Rd TR IQ Rwz Agh IL Pa CY LB IR 05 14 16 17 21 22 31 33 34 42 44 45 46 48 56 58 59 60 61 65 71 05A 05G 16A 21L 21Lc 33G 44L 44Lc 44L 44Lc 48L 56F 58N 60H 60Hb 61K 65D 65Dh
44. ***Napuca ochrearia (Rossi,1794)** (Geometridae) Synonym(s): *ochrearia* Rossi,1794; *sulphuraria* Fabricius,1794; *trifoliaria* Haworth,1809; *citraria* Hübner,[1826]; *laetula* Hulst,1896; *parvularia* Lempke,1953 DZ Ges Anna PT ES Mu FR Co Sa Si IT MT GB BE NL RO YU AL BG GR Rd TR CY IQ Dia RU MD UA Cm BY IL Pa Car US 01 05 06 16 17 21 22 33 34 35 39 41 45 46 56 59 64 71 79 80 05A 16A 21L 21La 21Ld 21Lf 21N 21Nc 35T 56F 56Fi 80B 80Bc
45. ***Nychiodes (Eunychiodes) variabila Brandt,1938** (Geometridae) Synonym(s): *variabila* Brandt,1938; *#variabilis* auct. Range (in codes): TR IR Km Ksh Fa Sse Com Mia Kz Ss Kuh IQ Bgd Agh Dk 13 21 23 56 65 13G 13Gü 13Gw 21L 21Lc 56F 65F 65Fr
46. ***Phaiogramma etruscaria (Zeller,1849)** (Geometridae) Synonym(s): *etruscaria* Zeller,1849; *pulmentaria* Guenée,[1858]; *palaestinensis* Fuchs,1903. Range (in codes): DZ Clo Anna Bsk TN Gf PT ES Mu FR Co Sa Si IT MT BE CH AT PL CZ SK RO YU AL BG GR Cr Rd TR IQ RU CY SY IR Kd Elb Th Fa Sse Com Kz AZ AM GG Smt Bjo Lag Kir Nv Ord Da Der Cc LB Bsa IL Pa Jf Mtl CN Ui Ii 05 14 16 17 21 28 31 32 33 39 42 44 46 56 61 65 76 80 05A 16A 21L 21Lc 28N 31K 31Ka 42B 44L 44Lc 44L 44Lc 46G 46Gf 56F 61K 65F 65Fg 76A 76Ac 80B 80Bc
47. ***Protorhoe unicata (Guenée,[1858])** (Geometridae) Synonym(s): *unicata* Guenée,[1858] Range (in codes): Si YU MK AL BG GR TR RU IQ IR Fa Shr Sse Com Kz KG KK UZ TJ Fe UA Cm AZ Nv AM Cc GG Lag Kir Ord 05 14 21 33 38 42 45 56 71 80 81 05A 21L 21Lc 42B 56F 56Fa 80B 80Bc
48. ***Scopula submutata (Treitschke,1828)** (Geometridae) Synonym(s): *submutata* Treitschke,1828; *submutaria* Boisduval,1840; *submutulata* Rebel,1902 Range (in codes): MA DZ PT ES FR Co Si IT CH RO YU HV MK B-H AL BG GR Cr TR LB Bei Bsa Cc GG AZ Nv IQ Kad IR GlS Kh TM Kp IL Pa 01 05 06 07 13 16 17 21 24 31 33 42 45 46 47 56 58 71 73 05A 13G 13Gü 13Gw 16A 21L 21Lc 21N 21Nb 33G 42B 46G 46Gf 56F 56Fh 58N 73E 73Eb

Noctuidae

49. ***Amephana dalmatica (Rebel,1919)** (Noctuidae) Synonym(s): *dalmatica* Rebel,1919 Range (in codes): Sa YU AL BG GR TR CY 01 02 05 06 07 20 21 31 33 42 50 05A 21L 21Lc 31K 31Ka 31Ka7
50. ***Autographa gamma (Linnaeus,1758)** (Noctuidae) Synonym(s): *gamma* Linnaeus,1758; *messmeri* Schadewald,1992; *voelkeri* Schadewald,1992. Range (in codes): PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR CY LB Bsa DK NO SE FI EE LV LT RU MD UA BY IQ Agh Mj IR Fa Elb Mz Dam Th Kdj Kz Yas Skh Bu Dlk AF Jla Kab Bsg Nu Adr CN Ui Ku IL Pa Hf JO EG Sn GG AZ AM Cc KK Ik TrA Ax UZ KG Ro Kr St Kb Kc Nt Ing Da Kyi ET ET24 SY Hal Ak Shf Ab Ar Gh GlS Kh Se Qz Zj Kd Km Lo By Bk Es Bu Ss MA DZ Blid Bsk Tlm Btna Orn Lbs Agi Hrh Abe Khh Ahr Hmk Ges Perr Bdj Ndr DhM TN BSa Sbd Tgr Hes Clo Ajj 01 03 04 05 06 07 08 10 13 14 16 17 18 19 21 24 25 26 28 30 31 32 33 35 37 38 39 42 43 44 48 49 50 51 52 56 58 61 62 63 65 66 73 75 76 80 05A 06P 06Pb 06R 06Rb 10K 10Ka 13A 13Ab 13Ax 13G 13Gg 13Gg 13Gö 13Gs 13Gw 16A 21L 21Lc 21N 21Nh 30B 30Bb 30Bk 30D 30Dx 31K 31Ka 31Ka3 31Ka7 33E 44L 44Lc 48L 49F 49Fb 56F 58N 63D 65Bx 65E 65Eb 65Ec 65Ed 65D 65Dr 65F 65Fd 65Fu 65G 65Ge 65K 65Kl 65Kp 65Ku 65M 65Mc 65Md 65N 65Nc 65Np 65Nr7 65Nm 73A 73Ac 73Ac1 73H 75F 75Fg 76A 76Ac 76B 76Bb 76Bf 76Bh

51. ***Caradrina (Paradrina) clavipalpis (Scopoli,1763)** (Noctuidae) Synonym(s): *clavipalpis* Scopoli,1763; *grisea* Hufnagel,1766; *quadripunctata* Fabricius,1775; *cubicularis* [Denis & Schiffermüller],1775; *leucoptera* Thunberg,1791; *milleri* Schultz,1862; *avicula* Krulikovsky,1909; *teidovolans* Pinker,1974; *pinkeri* Kobes,1975 Range (in codes): MA MR DZ TN EG PT ES Mu FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR CY DK NO SE FI EE LV LT RU MD UA BY KG Uk SD SA IQ Agh Ry R wz Dia Brs Kum IR Fa Es Plr Dam Kdj AF Hk Hr Nu Bsg MN CN Ui Chk ZA Gau Pre Tva LB Bsa IL Pa SY JO TJ UZ N-A Th Kd Bne Kz Yas Mia Mz Gls Kh GG Tbl Lag Da Der AZ Kir Nv Ord PK Gg Bt Hu Haz Mnr Mre Ds Psu Bl Zi IN Hp Ch Bsk Dja Blid Tlm Clo Agi Ges Abe Perr Sfr Bt na Dh m BSa Kh h Sbd Ktr Hrh Mzg Hmk Onç Omy 01 05 06 10 13 16 20 21 22 24 25 29 30 32 33 35 42 44 46 47 50 51 53 56 58 60 62 63 64 65 05A 06D 06E 06Ea 06R 06Rq 06Y 06Yb 13G 13Gg 13Gü 13Gw 16A 21L 21Lc 22M 30B 30Bd 33G 46G 46Gi 47D 47Da 53B 58G 65F 65Fp 65Fm 65Fr 65K 65Kp 65N 65Nc
52. **Cleonymia (Serryvania) opposita (Lederer,1870)** (Noctuidae) Synonym(s): *opposita* Lederer,1870; *#obscurior* Osthelder,1933. Range (in codes): YU BG GR TR AM Cc AZ Kir Pa IL IQ SY JO IR Ab Oru Mak Km 01 05 06 18 21 24 25 32 33 36 42 44 46 49 50 51 56 58 60 62 63 65 73 05A 06R 06Rh 06Y 06Yb 18F 21L 21Lc 21N 21Nb 21Nc 21Nh 33G 36D 36Db 42B 49F 49Fb 56F 56Fg 65D 65Dg 65Di 65F 65Fg 65Fm 65Fr 65Fp 65Fz 65L 65Lb 65N 65Np 65Np2 65Nm 73E 73Eb
53. ***Cucullia (Shargacucullia) verbasci (Linnaeus,1758)** (Noctuidae) Synonym(s): *verbasci* Linnaeus,1758 Range (in code): PT ES Mu FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG Tbl Smt Bjo AZ Nv Ord AM Cc Cy LB IL Pa SY JO DK SE LV LT RU Ro Kr St MD UA BY IQ IR Agh Fa Gor Elb Th Dam AF TM Kp 04 05 06 07 09 13 15 16 17 18 20 21 31 33 35 44 45 46 50 58 65 05A 13F 16A 21L 21Lf 44A 44Ab 46F 46Fg 58G 65E 65Eb 65N 65Np1 65Nm
54. ***Drasteria saiani (Staudinger,1882)** (Noctuidae) Synonym(s): *saiiani* Staudinger,1882; *clara* Staudinger,1895; *#zaisani* John,1910. Range (in codes): RU Da KG Tar Ssn Tk Dk TR IR Kh KuB Elb Th Diz Dam Plr KK Ik T-A Feg Skm CN Ui Ii AF Nu Bsg AZ Kir Nv Ord Cc TM Kp UZ N-A 01 04 06 08 12 13 21 25 30 33 36 42 44 47 49 50 51 56 58 65 66 06B 06Cb 06R 06Re 08H 13A 21L 21Lc 30B 30Bd 30Bg 30D 30Da 33R 36D 36Db 36F 49E 49Ea 56F 58G 65C 65D 65F 65Fp 65Fz 65K 65Kb 65Kl
55. ***Euchalcia dorsiflava (Standfuss,1892)** (Noctuidae) Synonym(s): *dorsiflava* Standfuss,1892 Range (in codes): TR 13 21 30 31 38 47 49 56 58 65 73 13G 13Gg 13Gü 13Gw 21L 21Lc 30B 30Be 30Bj 30Bl 30D 30Da 47D 47F 4Fa 56F 56F5 58G 65D 65Dh 65F 65Fa 65Fe 65Fm 65Fg 65Fr 73D 73Df 73Dfc
56. ***Hadena (s.str. (Magnolihadena)) magnolii (Boisduval,1828)** (Noctuidae) Synonym(s): *magnolii* Boisduval,1828; *nummosa* Eversmann,1844. Range (in codes): DZ Hmk PT ES An FR Co Si IT DE CH AT SK HU RO YU HV AL MK BG GR Cr TR TM IR By Yas Es Fa Lo Ha Elb Th Dam Kd Kh Cc GG Tbl Smt Bjo Mng AZ Kir AM LB Bsa UZ N-A KK KG RU Ro St Kb Nt Ing Da Sb At UA PK Ch Hu 01 04 05 06 09 13 14 18 21 24 25 29 32 33 36 42 44 46 49 50 51 58 65 66 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gs 13Gw 21L 21Lc 42R 44L 44Lc 58R 65D 65Du 65F 65Fr 65Fp 65Fz 65Fm 65K 65N 65Np 65Np1 65Nm
57. ***Hadula (Caloestra (Hadumendax)) mendica (Staudinger,[1895])** (Noctuidae) Synonym(s): *mendica* Staudinger,[1895]. Range (in codes): TR LB Cc AZ Nv Ord Kir IR Elb Kdj Ab Oru Mak 01 02 07 13 21 23 24 30 32 33 36 42 46 47 49 51 58 60 63 65 73 01K 21L 21Lc 30B 30Be 30Bh 36D 36Dd 65F 65Fr 73C 73Cd 73Cd
58. **Hecatera bicolorata (Hufnagel,1766)** (Noctuidae) Synonym(s): *bicolorata* Hufnagel,1766; *serena* [Denis & Schiffermüller],1775; *placida* Esper,[1791]; *hieracii* Bkh.,1793; *par* Donovan,1801; *monticola* Dup.,1826; *leuconota* Eversmann,1837; *intermedia* Walker,[1858]; *obscura* Staudinger,1861. Range (in codes): DZ PT ES FR Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU Ro Kr St Kc Kb Ich Ing Da Sb At Am MD UA BY IR Fa Es Ke Mz Elb Th Kd Bne Mrv Hz AM AZ GG Lag Len Kir Cc CY LB Bsa IL Pa Hf SY KK Ax TrA Na Ges BSa Hmk Hrh Kh h Bsk Agi 01 04 05 06 07 08 13 14 18 21 24 25 28 29 30 33 36 46 49 50 51 53 55 58 60 63 65 66 75 05A 06R 06Rh 113G 13Gy 21L 21Lc 21N 21Nh 30B 30Bd 53B 55F 58R 65F 65Fa 65Fp 65Fz 65D 65Du
59. ***Hecatera spinaciae (Vieweg,1790)** (Noctuidae) Synonym(s): *#dysodea* [Denis & Schiffermüller],1775; *spinaciae* Vieweg,1790; *ornata* De Villiers,1789; *chrysozona* Borkhausen,1792; *ranunculina* Haworth,1809; *caduca* Herrich-Schaffer,[1851]; *innocens* Staudinger,1871; *subflava* W.Warren,1910; *faroulti* Rothschild,1914; *antitypina* Rothschild,1914; *africana* Oberthür,1918; *khala* Rungs,1972 Range (in codes): PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc SE LT RU MD UA BY IR Fa By Yas Lo Sh Kh Ke Ha Elb Dam Kd Zj Sse IQ Bgd Agh LB Bsa IL Hf Pa JO Sn CN Ui Ku Ii AF Hr Blh Gbh Srb Kab Ch Gs KG Ssn Mn TJ Pm Chr UZ TM Fe KK Ik Hp Ro Kr St Kyi Da CY GG AZ Tbl Bjo Mng Kir Lag Nv Ord Sdt Mrv Bne Zj DZ BSa Ges Agi Eba MA 01 04 05 06 07 13 14 16 18 20 21 24 25 32 33 36 44 46 50 51 58 60 62 63 65 66 76 05A 13B 13C 13Cy 16A 21L 21Lc 25F 44I 44Ic 58N 65Bx 65F 65Fa 65Fr 65Fp 65Fz 65G 65Ge 65K 65N 65Nc 65Kp 65L 65Lb 65N 65Np6 65Nm 76C
60. ***Hypena munitalis Mann,1861** (Noctuidae) Synonym(s): *munitalis* Mann,1861. Range (in codes): BG MK GR TR GG Smt Bjo Akh Cc AM RU Kr IL Pa LB Bei 01 05 06 07 08 12 13 21 24 25 32 33 42 44 49 50 51 56 58 65 69 73 05A 06R 06Ra 06Rm 13A 13Ab 13Ax 13G 13Gg 13Gü 13Gw 21L 21Lc 32A 42B 42Bb 44E 44Eh 44L 44Lc 49E 49Ea 56C 56Ca 56F 56Fo 56Fs 56F5 65F 65Fp 65Fz 65K 65N 65Nc 65Kp 65Kl 73A 73Ad 73Ad2
61. ***Metachrostis dardouini (Boisduval,1840)** (Noctuidae) Synonym(s): *dardouini* Boisduval,1840; *velox* Treitschke nec Hbn.,[1813]; *mendacula* Freyer,1841; *dilutior* Schwingenschuss,1926 Range (in codes): PT ES FR IT CH AT SK HU RO YU BG GR Cr TR Cc AZ Nv Ord Kir IR Ab Oru Fa Kaz Kh Msh TM Kp CY IL Pa JO LB 06 10 13 16 21 23 30 32 33 50 56 58 65 73 06C 06Cb 13G 13Ge 16A 21L 21Lc 23I 30B 30Bj 56E 56Ea 65D 65Dh 65F 65Fp 65Fz 73A 73Ab
62. **Mythimna (Aletia) vitellina (Hübner,[1808])** (Noctuidae) Synonym(s): *vitellina* Hübner,[1808]; *#vitellena* Lederer,1870; *decolorata* Dannehl,1929; *saturation* Dannehl,1929; *grisea* Dannehl,1929. Range (in codes): Cn MA MR DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ Brs Ry R wz Dia Agh DK RU At MD UA BY PK Ch NP IN Pj Kul CN IR Lo Es Ha Kh Fa Mz Elb Th Kdj AF Hr UZ Fe KK Ik TM KG TJ CY AZ Bak GG Cc LB Bsa SY JO IL Pa T-A Kp N-A Br Ro Kr St Kc Kb Nt Ing Ich Da Tbl Smt Bjo Bku Kir Gls Agi Blid Kh h Gue Ges Bt na BSa Anna Orn Abe Sfr Sbd Dh m Sét Hrh Hmk 01 03 05 06 07 08 09 13 16 17 18 21 22 23 24 25 27 28 29 30 31 33 34 35 36 37 39 42 44 45 46 48 49 50 51 52 56 58 62 63 65 73 75 76 80

05A 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 30D 30Dx 33G 36D 36Db 44E 44Eh 44L 44Lc 46G 46Gf 48L 49F 49Fb 56F 56Fa 56Fb 56Fh 56Fo 56Fv 58G 63D 65D 65Dl 65Dlc 65Ds 65Du 65Dv 65F 65Fa 65Fb 65Fc 65Fd 65Fg 65Fh 65Fi 65Fj 65Fm 65Fr 65Fp 65Fu 65Fz 65G 65Ge 65K 65N 65Ne 65Nc 65Kd 65Kg 65Kl 65Kp 65Ku 65L 65Lb 65N 65Nm 65Np 65Np1 65Np8 73D 73Db 75F 75Fe 76A 76Ac 76B 76Bb

63. ***Noctua (Paranoctua) comes (Hübner,[1813])** (Noctuidae) Synonym(s): *orbona* Fabricius,1787 *nec* Hufn.,1767; *comes* Hübner,[1813]; *adsequa* Treitschke,1825; *prosequa* Treitschke,1825; *bergensis* Sp.-Schn.,1901. Range (in codes): MA DZ Dze Hrh Abe Sbd Lbs DhM Tun BtNa TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT IR Lo Ke Fa Enz Gh Ab Kz Km Kd Lo Mz GlS Elb Kh IQ SY LB Bsa IL Hf Pa JO AM GG Tbl Cc RU Ro Kr St Kb Da Der 01 05 06 07 08 09 10 11 13 16 21 22 30 31 33 39 42 43 44 45 46 56 59 63 65 73 01K 05A 06R 06Rb 11E 13A 13Ab 13Ax 13C 13Cd 13G 13Gg 13Gü 13Gs 13Gw 16A 21L 21Lc 30B 30Bc 30Bc1 30Bd 30D 30Dx 42B 44L 44Lc 56F 56Fo 59D 63D 65D 65Dn 65F 65Fb 65F 65Fp 65Fz 65K 65Kd 65Kg 65N 65Nc 65Nc 65Np 65Np1 65Np7 65Nm 73D 73Db
64. **Phlogophora meticulosa (Linnaeus,1758)** (Noctuidae) Synonym(s): *meticulosa* Linnaeus,1758; *lamii* Schadewald,1993 Range (in codes): MA DZ Abe Ges BtNa DhM Hrh TN PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc GG Tbl Bjo Smt Lag AZ Kir IQ Agh CY LB IL Hf Pa IR Gh Elb Clu Mz DK NO SE FI EE LV LT RU Ro St Kr Kc Kb Nt Ich Da MD UA BY 05 06 07 13 14 16 18 21 24 25 33 34 36 38 46 50 51 56 58 65 05A 06R 06Rb 06Y 06Yb 13G 13Gs 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 36D 36Db 38H 38Hc 56F 58G 65D 65Dv 65F 65Fp 65Fz 65N 65Nc 65L 65Lb

Notodontidae

65. **Spatalia argentina ([Denis & Schiffermüller],1775)** (Notodontidae) Synonym(s): *argentina* [Denis & Schiffermüller],1775 Range (in codes): ES FR Si IT DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc IQ LB Bsa 05 06 07 08 10 12 13 14 16 17 20 21 24 30 31 32 33 35 42 46 49 56 61 62 64 65 66 71 73 80 05A 06R 06Ra 06Rb 07C 08H 10D 10P 10U 12A 12Aa 13F 13G 13Gy 13Gg 14B 14Bb 16A 17E 17H 17M 21L 21Lc 21N 21Nb 21Nc 30B 30Bd 30Be 30Bh 33E 33F 42B 42R 46D 49E 49Ea 56F 60C 61L 62E 64A 64F 65D 65Dl 65Dlc 65Ds 65F 65Fe 66P 71D 73A 73Ab 73Ad 73Ad2 73Ae 73C 73Ce 73Cd 80C

Oecophoridae

In the district, several specimens of the genus *Pleurota* have been collected by day and by night. After examining their male genitalia (GP2205, 2206, 2207), they have been identified as pyropella-group of species, although they have remarkably different from each other as the wing size, markings and colouration. For that reason, we need more material from the district, in order to decide on their precise identification at specific level. For the time being, only the species *Pleurota pyropella* is reported below faunistically.

66. ***Pleurota (s.str.) pyropella ([Denis & Schiffermüller],1775)** (Oecophoridae) Synonym(s): *pyropella* [Denis & Schiffermüller],1775 Range (in codes): DZ PT ES FR Co Sa Si IT DE CH AT CZ SK HU RO YU AL BG GR Cr TR Cc LB Bsa CY RU MD UA BY 05 06 10 16 21 31 40 42 44 46 51 56 65 73 75 05A 06R 06Rb 06Rd 10K 10Ka 16A 21L 21Lf 31M 56Dh 56Dg 65D 65N 65Np2 65Nm 73D 73Df 73Dfc 73E 73Eb 73H 73Hb 75D

Pyralidae

Several female of *Phycitinae* are similar externally to the species of *Ancylosis*, however the genitalic structure reveals that different. For that reason, more material of males are needed for deciding on its identity.

67. ***Cynaeda gigantea (Staudinger,1879)** (Pyralidae) Synonym(s): *#gigantea* Wocke,1871; *gigantea* Staudinger,1879 Range (in codes): FR CH HU YU GR Cr TR IQ Hjo Ssa IR Fa Shr Com Sse GlS IL Pa LB Bsa AF Slg Pnj Pag Adr KG Uk 05 06 08 13 14 21 23 38 42 44 46 50 56 58 65 76 05A 06K 06Kb 06R 06Rk 13A 13Ab 13Ax 13F 13F6 14B 14Bb 21L 21Lc 38H 38Hc 44E 44Eh 50G 56F 56F1 56Fb 58G 65D 65Dt 65Du 65N 65Np1 65Nr4 65Nm 76C
68. ***Ecpyrrhorhoe diffusalis (Guenée,1854)** (Pyralidae) Synonym(s): *carnealis* Dup.,1831 *nec* Treit.1829; *diffusalis* Guenée,1854; *affusalis* Guenée,1854; *tenuialis* Mann,1862. Range (in codes): TN ES FR IT CH HU RO YU HV AL BG GR IL Pa Hf TR IR Fa Shr Com Ss Th Kdj Ha Mz LB Bsa AF Pic Kab Srb Bsg Pag PK Cp AE Cc GG Tbl Bjo AZ Kir Nv Ord AE 01 05 06 13 16 21 31 38 42 44 46 47 56 60 65 71 73 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 31K 31Ka 31Ka3 31M 44L 44Lc 44L 44Lc 46G 46Gf 56F 56F1 65D 65Dv 65Dt 65Ds 65F 65Fc 65Fp 65Fz 65N 65Np6 65Nm 73A 73Ad 73Ad2
69. ***Ephelis cruentalis (Geyer,[1832])** (Pyralidae) Synonym(s): *cruentalis* Geyer,[1832]; *bourjotalis* Duponchel,1833; *badialis* Treitschke,1835 Range (in codes): FR Si IT YU BG GR Rd Cr TR LB Cc GG Tbl Mng Lag AM AZ IL Pa Hf EG IR Fa Sse Elb Th Kdj Nss Kdv Gor Kh IQ Ry Shq AF Adr Shv Kab KG Slu Syr 01 05 06 12 13 16 21 25 30 31 33 34 35 36 38 39 42 44 46 49 56 58 63 65 76 80 05A 06K 06Kb 06R 12E 12Ed 13F 13G 13Gü 13Gw 16A 21L 21Lf 30B 30Bc 30Bc1 30D 30Dx 31M 36D 36Db 42K 44L 44Lc 49D 49Db 56F 56Fb 56Fc 56F1 58G 58R 58Rb

65D 65Dh 65Dl 65Dlc 65Dt 65Du 65Dv 65F 65Fp 65Fz 65H 65Hb 65K 65Ké 65Kg 65N 65Np2 65Nr2 65Nm 76C 80B 80Bc

70. ***Epischnia prodromella (Hübner,[1799])** (Pyrilidae) Synonym(s): *prodromella* Hübner,[1799]; *#prodromella Rebel,1939* Range (in codes): DZ Bsk Ges TN Gf PT ES FR Si IT BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc AM SY IR Shh Gor Mz Elb IL Pa Hf LB CY TM Kp KG Uk RU MD UA BY 01 05 06 08 13 16 21 31 32 34 42 46 58 65 05A 08H 08Ha 13F 16A 21L 21Lc 31M 65D 65N 65Nc 65Nc4 65Nr7 65Nm
71. ***Homoeosoma (s.str.) sinuellum (Fabricius,1794)** (Pyrilidae) Synonym(s): *sinuella* Fabricius,1794; *sinuatus* Fabricius,1794; *elongella* Hübner,[1813]; *gemina* Haworth,1811; *flavella* Duponchel,1836; *gioferella* Turati,1934. Range (in codes): TN DZ MA PT ES Cue Mu An Snv FR Co Sa IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU B-H HV MK AL BG GR Cr TR DK SE FI EE LV LT RU MD UA BY CY LB KG KK AI IR Elb Th Kdj Clu Shh Gls TM Kp Cc AM Eri AF Hr Pli Blh 01 05 06 07 13 16 21 31 39 44 46 58 65 70 71 76 05A 13F 16A 21L 21Lc 31M 65D 65Dl 65Dlc 76C
72. ***Keradere lepidella (Ragonot,1887)** (Pyrilidae) Synonym(s): *lepidella* Ragonot,1887 Range (in codes): YU GR TR Cc CY AM AZ Nv Ord GG LB Bsa IQ Hjo IR Ahz Kh Fa Sse Kdj 09 13 21 46 47 65 71 13F 13F35 21L 21Lc 65D
73. ***Metallosticha argyrogrammos (Zeller,1847)** (Pyrilidae) Synonym(s): *argyrogrammos* Zeller,1847 Range (in codes): Si IT RO HV MK Och BG GR TR LB Bsa Bei SY Dms IL Hf Pa IR Fa Shr 05 06 13 16 21 31 38 42 45 46 48 65 70 05A 06R 13A 13Ab 13Ax 16A 21L 21Lc 31M 65D 65Du 65Dh
74. ***Myelois (s.str.) circumvoluta (Fourcroy,1785)** (Pyrilidae) Synonym(s): *circumvoluta* Fourcroy,1785; *circumvolutella* Villers,1789; *cribrella* Hübner,1796; *carhdui* Haworth,1811; *medullalis* Hübner,[1825]; *pallium* Vallot,1829; *gilbescentella* Fuchs,1903; *britannicella* Amsel,1951; *impunctata* Hartig,1952; *nigrapeza* Hartig,1952 Range (in codes): DZ Ges Lbs PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE FI EE LV LT RU MD UA BY IR Mz 01 06 13 17 21 31 33 36 49 65 71 73 80 06R 06Rd 13F 21L 21Lc 31M 36D 36Db 49F 49Fb 65D 65Dh 65Ds 65Dv 65Du 65N 65Np1 65Nm 73D 73Df
75. ***Pseudosyria sororiella (Zeller,1839)** (Pyrilidae) Synonym(s): *sororiella* Zeller,1839; *marilella* Guenée,1845; *jucundella* Mann,1864; *satureiella* Millière,1873; *iranella* Roesler,1969; *klimeschi* Roesler,1969; *#minima* Roesler,1969 Range (in codes): DZ Bsk PT ES FR Co Sa Si IT MT CH AT HU YU AL BG GR Cr TR IR Fa Shr Elb Mz IL Pa Hf 06 13 16 21 34 42 46 65 06R 13F 16A 21L 21Lc 65N 65Np2 65Nm
76. ***Pyrasia gutturalis (Staudinger,1879)** (Pyrilidae) Synonym(s): *gutturalis* Staudinger,1879 Range (in codes): TR LB Bsa IQ Hjo IR Fa Shr Sse Com Elb Mz 01 07 13 21 31 45 46 47 56 65 07O 13F 21L 21Lc 21N 21Nb 31M 46G 46Gi 56F 56Fa 65D 65Dh 65Ds 65Du 65Dv 65N 65Np6 65Nm
77. ***Pyrausta despicata (Scopoli,1763)** (Pyrilidae) Synonym(s): *despicata* Scopoli,1763; *koenigiana* O.F.Müller,1764; *vestianella* Clerk,1764; *cespitalis* [Denis & Schiffermüller],1775; *sordialis* Thunberg,1784; *intermedialis* Duponchel,1833; *tendinosalis* Bremer,1874; *yangtsealis* Caradja,1938; *ifranalis* Leraut,2001 Range (in codes): MA Ifr PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ Rwz Amr DK NO SE FI EE LV LT RU Cc GG CY IR Ab Elb Shh Th Fa Shr Com Ha Plr Kdv Mz AF Hr Bmu Slg Pnj Bda Pic Kab Arh Srb Ca Gbh Adr Fz Khi Pag Pli UZ Fe CN Ui Ju Ku LB Bsa PK Abb Sro Mz Sb Yu Uk JO KG DZ Lbs 01 05 06 11 13 14 16 17 21 24 25 31 32 33 34 42 46 51 55 56 58 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13B 13Bg 13G 13Gf 13F 13F6 13Gö 13Gg 13Gw 16A 21L 21Lf 31M 55F 56D 56Dd 56F 56F1 58G 58Gg 65D 65Dh 65Du 65Dw 65G 65Gn 65F 65Fç 65Fp 65Fz 65K 65Kb 65Ké 65Kl 65Ku 65Kg 65L 65Lb 65N 65Nk 65Np 65Np7 65Np8 65Nr2 65Nm 76C
78. ***Synaphe uxorialis (Lederer,1858)** (Pyrilidae) Synonym(s): *uxorialis* Lederer,1858 Range (in codes): SY TR IL Pa LB Bsa IQ Ama JO 05 21 46 56 73 05A 21L 21Lf 21N 21Nb 46F 46Ff 56F 56Fb 56Fh 56Fw 56Fz 73D 73Df

Scythridae

79. ***Scythris (scopolella-gr.) apicalis (Zeller,1847)** (Scythridae) Synonym(s): *apicalis* Zeller,1847; *unipunctella* Rebel,1901; *#mediella* Caradja,1920 Range (in code): FR RO GR TR Cc AM Eri IQ Hjo Er IR LB CN Ui Ku 21 31 33 36 46 48 65 21L 21Ld 31M 36F 46L

Sphingidae

80. **Hyles conspicua (Rothschild & Jordan,1903)** (Sphingidae) Synonym(s): *conspicua* Rothschild & Jordan,1903. Range (in codes): TR Cc GG Smt Bjo Tbl JO IL Pa Hf LB Bsa Bei IQ SY Dms IR Elb Th 01 05 06 07 09 10 13 14 15 16 17 20 21 24 25 30 32 33 35 36 42 45 46 47 48 50 51 56 58 60 63 65 73 76 01H 05A 06R 06Ra 06Re 10C 10D 13A 13Ab 13Ae 13Ax 13F 16A 21L 21Lc 21N 21Nb 24G 25C 25Ca 30B 30Bd 30D 30Da 30Df 36D 51D 47F 47Fa 48G 48Gb 56F 56Fh 58G 58Gg 60C 63B 65B 65Bo 65Bx 65D 65F 65Fb 65Fe 65Fç 65N 65Nc 65Nc4 65Np 65Np1 65Np2 65Nm 73C 73Cd 73D 73Da 76A 76Ac 76B 76Bb
81. **Hyles livornica (Esper,[1780])** (Sphingidae) Synonym(s): *livornica* Esper,[1780]; *koechlini* Fuessly,1781; *tatsienluica* Oberthür,1916; *saharae* Gehlen,1932; *malgassica* Denso,1944; *tatsienluica* Oberthür,1944; *renneri* Eitschberger, Danner & Surholt,1998. Range (in codes): Md Cn MA DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IR Elb Shh Gor Ke Kh SbZ DK SE FI EE LV RU Sr Mo MD UA BY CN Ui GG Bjo Tbl IL Hf Pa LB Bsa Bei TM Kp K-A Krn PK Bl Qu AU SAu Ade Hw ZA Cap Fs Blo SO MG IQ TW TH Cma NP SI Ch Djl YE Ad CN Ti Yu T-T Cm CY Ss Kz Gau Tva Pre Agh JO AF Nu Bsg Srb Kab Nu Bsg Cc AZ AM Cc Cp Ak Msw Ess Orn Odj Agi Ges Bsa Omy Bsk Ktr Khh DhM Onç Gha Dzc Mzg Hrh Gf Omy Gle Ceg Gtt Ath Ah 01 05 06 07 09 10 13 16 17 19 21 23 30 31 33 34 35 36 44 45 46 47 48 53 56 58 60 61 63

73 75 76 05A 06R 06Ra 06Re 07A 07C 10K 10Ka 13A 13Ab 13Ax 13F 16A 19G 19P 21L 21Lc 21N 21Nb 23I 30B 30Ba 31K 31Ka 31Ka7 44L 44Lc 46G 47F 47Fa 48G 48Gb 53N 56F 56Fa 56Fh 56Fo 58N 60C 63D 73C 73Cd 75F 76B 76Bb

Symmocidae

82. **Apiletria* sp. (Symmocidae)

Tineidae

83. **Ceratuncus affinitellus* (Rebel,1901) (Tineidae) Synonym(s): *affinitellus* Rebel,1901; *#extinctella* Caradja,1920; *maraschensis* Rebel,1936; *irakella* Amsel,1949; *libanotica* Amsel,1951. Range (in codes): TR IQ Dy Hjo Qg LB SY Ltk IR Elb Th Dam UA Cm AM Cc 21 33 38 42 46 47 71 21L 21Lc 33H

Tortricidae

84. *Aphelia* (Zelothereses) *ferugana* (Hübner,1793) (Tortricidae) Synonym(s): *ferugana* Hübner,1793; *ochreana* Hübner,[1799]; *shaqlawana* Amsel,1955; *chretieni* Obratzsov,1957 Range (in codes): FR Sa Si IT DE CH AT CZ SK HU RO YU AL BG GR TR IQ Shq SY Hal Cc AM Eri GG IR Qz Th Kdj 05 13 14 16 21 30 31 42 46 49 56 65 71 73 05A 13Gö 13Gğ 13Gs 13Gw 16A 21L 21Lc 21N 21Nb 31M 49F 49Fb 56F 56Fc 65D 65Dg 65Di 65Dh 65Du 65F 65Fd 65Fe 65Fç 65Fz 65G 65K 65Kz 65Kğ 65N 65Np 65Np1 65Np2 65Nm 73A 73Ak

85. **Diceratura roseofasciana* (Mann,1855) (Tortricidae) Synonym(s): *roseofasciana* Mann,1855; *aequana* Caradja,1916; *keredjana* Razowski,1963. Range (in codes): PT ES FR Co Sa Si IT HU RO YU TR IL LB Bsa Bei SY Dms Da Cc Hal RU Sr IR Kz Kdj Elb 01 05 06 16 21 31 42 46 01K 05A 16A 21L 21Lc 31M 42B 46G

86. **Lobesia* (s.str.) *porrectana* (Zeller,1847) (Tortricidae) Synonym(s): *porrectana* Zeller,1847 Range (in codes): ES FR Co Sa Si IT MT IL LB TR SY Dms 15 21 46 21L 21Lc 46G

Yponomeutidae

87. **Plutella xylostella* (Linnaeus,1758) (Yponomeutidae) Synonym(s): *xylostella* Linnaeus,1758; *cinerea* Fourcroy,1785 *nec* Hufn.,1766; *xylostei* Fabricius,1798; *maculipennis* Curtis,1832; *niveella* Zeller,1839; *cruciferarum* Zeller,1843; *brassicella* Fitch,1856; *limbipennella* Clemens,1860; *mollipedella* Clemens,1860; *cicerella* Rondani,1876; *dubiosella* Beutenmüller,1889; *albovenosa* Walsingham,1897; *megapterella* Bentinck,1943 Range (in code): DZ Ajj Gha TN PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR DK NO SE FI EE LV LT RU MD UA BY AF Hr IR Elb Kdv Dam Mz Kh Gls IQ Njf Hjo LB Bsa IL Hf Pa ZA TH MY Cmh IN Hp SA AE YE 01 06 13 21 31 34 38 42 44 48 49 65 71 13G 13Gü 13Gw 21L 21Lf 31K 31Ka 44L 44Lc 48L 49F 49Fb 65B 65Bn 65Bn1 65D 65Dy 65E 65Eb 65Ed 65F 65F1 65Fz 65K 65N 65Nc 65Kz 65Kğ

References

- Kemal, M. & A.Ö.Koçak, 2015, *Syringopais temperatella* (Led.) in South Turkey (Lepidoptera, Gelechioidea). *Cesa News* 106: 5-12, 10 figs. 1 map.
- Koçak, A.Ö. & M.Kemal, 2009, Revised Checklist of the Lepidoptera of Turkey. *Cent. ent. Stud., Priamus Suppl.* 17: 1-253.
- Koçak, A.Ö. & M.Kemal, 2010, Evaluation of the lepidopterological bibliography based upon the Info-system of the Cesa. *Cent. ent. Stud., Priamus* (Supplement) 21: 1-1185, 59 figs. 3 graphics.
- Koçak, A.Ö. & M.Kemal, 2015, Initial results of the Entomofauna of SW Asia, based upon the info-system of the Cesa (excl. Lepidoptera). *Priamus* (Suppl.) 35: 1-1185, 185 maps.
- Koçak, A.Ö., 2014, List of the 23773 pterygot species in Turkey based upon the info-system of the Cesa. *Priamus* (Suppl.) 32: 1-876.

Illustrations



Fig. 4 – *Melitaea ornata* (Argynnidae), in copula. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 5– *Spialia orbifer* (Hesperiidae), at rest. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 6 – *Polyommatus antiochenus* (Lycaenidae), a male sipping mineral water. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 7 – *Polyommatus antiochenus* (Lycaenidae), in copula. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 8 – *Coenonympha pamphilus* (Satyridae), a resting male. South of Dadaş, 18 6 2015, M Kemal (Cesa)

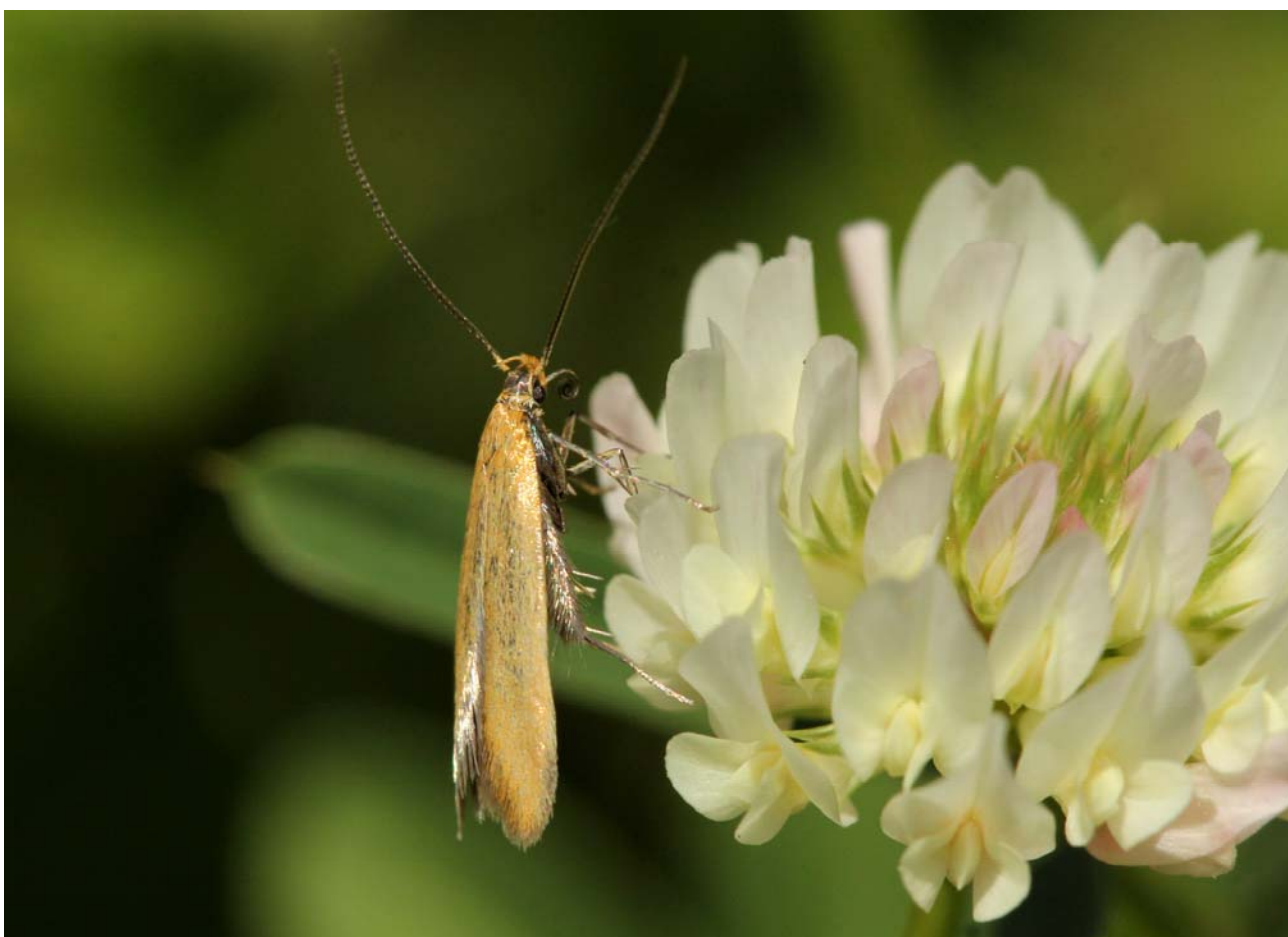


Fig. 9 – *Syringopais temperatella* (Deoclonidae), a resting male. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 10 – *Cucullia verbasci* (Noctuidae), young larva on *Verbascum*. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 11– *Cucullia verbasci* (Noctuidae), grown larva in captivity. 25 05 2015, M Kemal (Cesa)



Fig. 12 – *Pleurota pyropella* (Oecophoridae), a resting male. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 13 – *Scythris apicalis* (Scythridae), male at rest. (Gen Prep. 2162). East of Dadaş, Zerunek 1075m, 17 5 2015, M Kemal (Cesa)



Fig. 14 – *Plutella xylostella* (Yponomeutidae), during feeding on *Anthemis* flower. South of Dadaş, 16 5 2015, M Kemal (Cesa)



Fig. 15 – *Ethmia similis* (Ethmiidae), at rest. Uzunargıt 16 05 2015, M Kemal (Cesa)



Fig. 16– *Dyscia innocentaria* (Geometridae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 17 – *Gnopharmia colchidaria* (Geometridae), a male at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 18 – *Idaea filicata* (Geometridae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 19 – *Nychiodes variabila* (Geometridae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 20 – *Protorhoe unicata* (Geometridae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 21 – *Phaiogramma etruscaria* (Geometridae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 22 – *Drasteria saisani* (Noctuidae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 23 – *Hecatera bicolorata* (Noctuidae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 24– *Mythemna vitellina* (Noctuidae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 25– *Epischnia prodromella* (Pyralidae), at rest. Uzunargit 16 05 2015, M Kemal (Cesa)



Fig. 26 – *Pyrasia guttulalis* (Pyrallidae), at rest. Uzunargıt 16 05 2015, M Kemal (Cesa)



Fig. 27 - *Thaleropsis ionia* (Argynnidae), female. Dadaş 17 6 2015, M. Kemal (Cesa)



Fig. 28 – *Cigaritis uighurica* (Lycaenidae), male. Dadaş 17 6 2015, M. Kemal (Cesa)



Fig. 29 – *Pieris manni* (Pieridae), male. Dadaş 17 6 2015, M. Kemal (Cesa)



Fig. 30 – *Pieris rapae* (Pieridae), male. Dadaş 17 6 2015, M. Kemal (Cesa)



Fig. 31 – *Melanargia grumi* (Satyridae), female. Dadaş 17 6 2015, M. Kemal (Cesa)



Fig. 32 – *Dyscia innocentaria* f.n. *hazro* (Geometridae), male, GP2187, Uzunargit. M. Kemal (Cesa)
A dark form of *innocentaria* has been found for the first time, and this peculiar form named here as f.n. *hazro*.



Fig. 33 – *Glossotrophia sacraria* (Geometridae), male, GP2193, Uzunargit. M. Kemal (Cesa)



Fig. 34 – *Gnopharmia colchidaria* (Geometridae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 35 – *Gnophos sartatus* (Geometridae), male, GP2192, Uzunargit. M. Kemal (Cesa)



Fig. 36 – *Idaea filicata* (Geometridae), female. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 37 – *Nychiodes variabila* (Geometridae), male, GP2198. Uzunargit, M.Kemal (Cesa)



Fig. 38 – *Protorhoe unicata* (Geometridae), female. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 39 – *Scopula submutata* (Geometridae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 40 – *Ethmia infelix* (*Ethmiidae*), female, GP2182. Uzunargit. M.Kemal (Cesa)



Fig. 41 – *Ethmia similis* (*Ethmiidae*), male, GP2181. Uzunargit. M.Kemal (Cesa)



Fig. 42 – *Amephana dalmatica* (Noctuidae), male. Uzunargıt, 16 05 2015, M. Kemal (Cesa)



Fig. 43 – *Cynaeda gigantea* (Pyralidae), male. Uzunargıt, 16 05 2015, M. Kemal (Cesa)



Fig. 44 – *Ecpyrrhorhoe diffusalis* (Pyrilidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 45 – *Ephelis cruentalis* (Pyrilidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 46 – *Epischnia prodromella* (Pyrilidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 47 – *Keradere lepidella* (Pyrilidae), male, GP2185. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 48– *Myelois circumvoluta* (Pyrallidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 49 - *Pseudosyria sororiella* (Pyrallidae), male. GP2194, Uzunargit. M.Kemal (Cesa)



Fig. 50 – *Pyrasia guttulalis* (Pyrallidae), Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 51 – *Synaphe uxorialis* (Pyrallidae), Dadaş 17 06 2015, M. Kemal (Cesa)



Fig. 52 – *Apiletria* sp. (*Symmocidae*), Dadaş 17 06 2015, M. Kemal (Cesa)



Fig. 53 – *Ceratuncus affinitellus* (*Tineidae*), male, GP2195. Uzunargit. M Kemal (Cesa)



Fig. 54 – *Aphelia ferugana* (Tortricidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 55 – *Diceratura roseofasciana* (Tortricidae), male. GP2189. Uzunargit. M Kemal (Cesa)



Fig. 56 – *Lobesia porrectana* (Tortricidae), male. Uzunargit, 16 05 2015, M. Kemal (Cesa)



Fig. 57 – *Dyscia innocentaria* f.n. *hazro* (Geometridae), male, GP2187, Uzunargit. M. Kemal (Cesa)
see also **Fig.32**.



Fig. 58 – *Glossotrophia sacraria* (Geometridae), male, GP2193, Uzunargit. M. Kemal (Cesa)

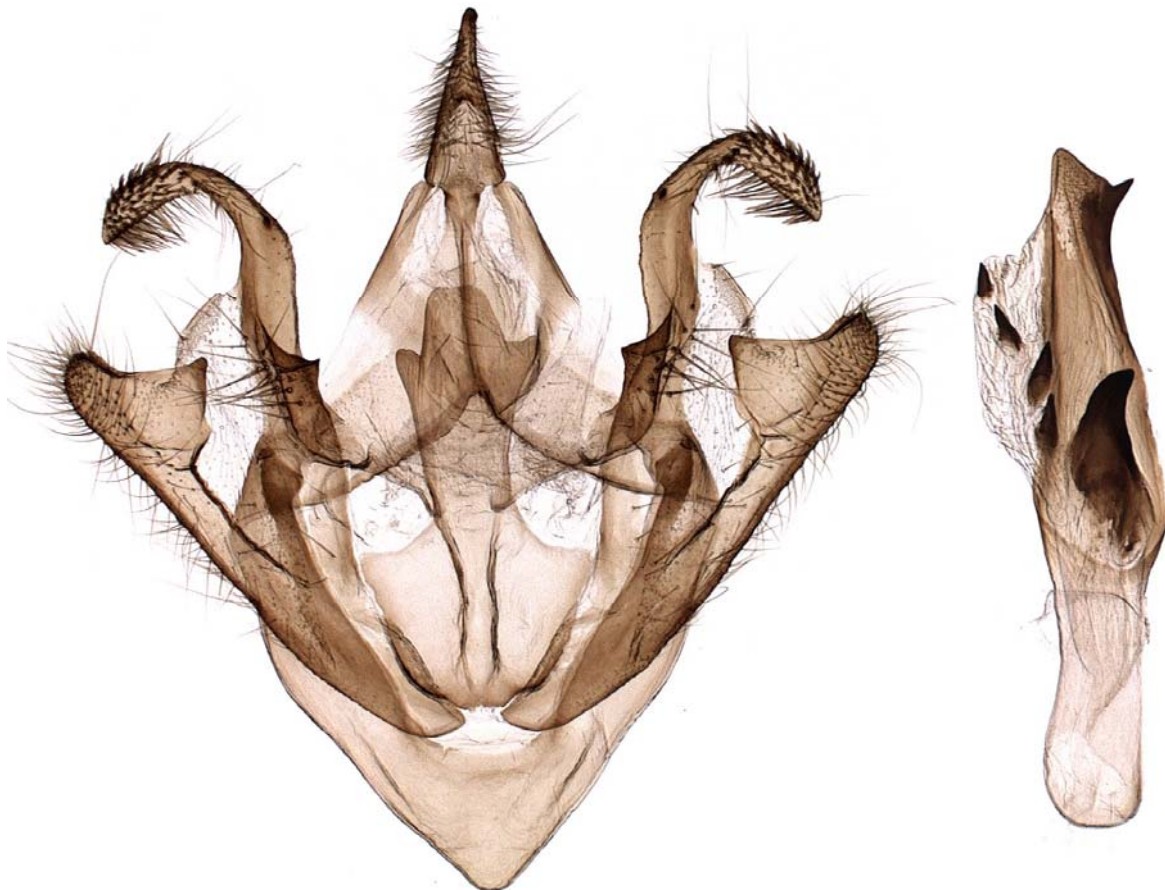


Fig. 59 – *Gnophos sartatus* (Geometridae), male, GP2192, Uzunargit. M. Kemal (Cesa)

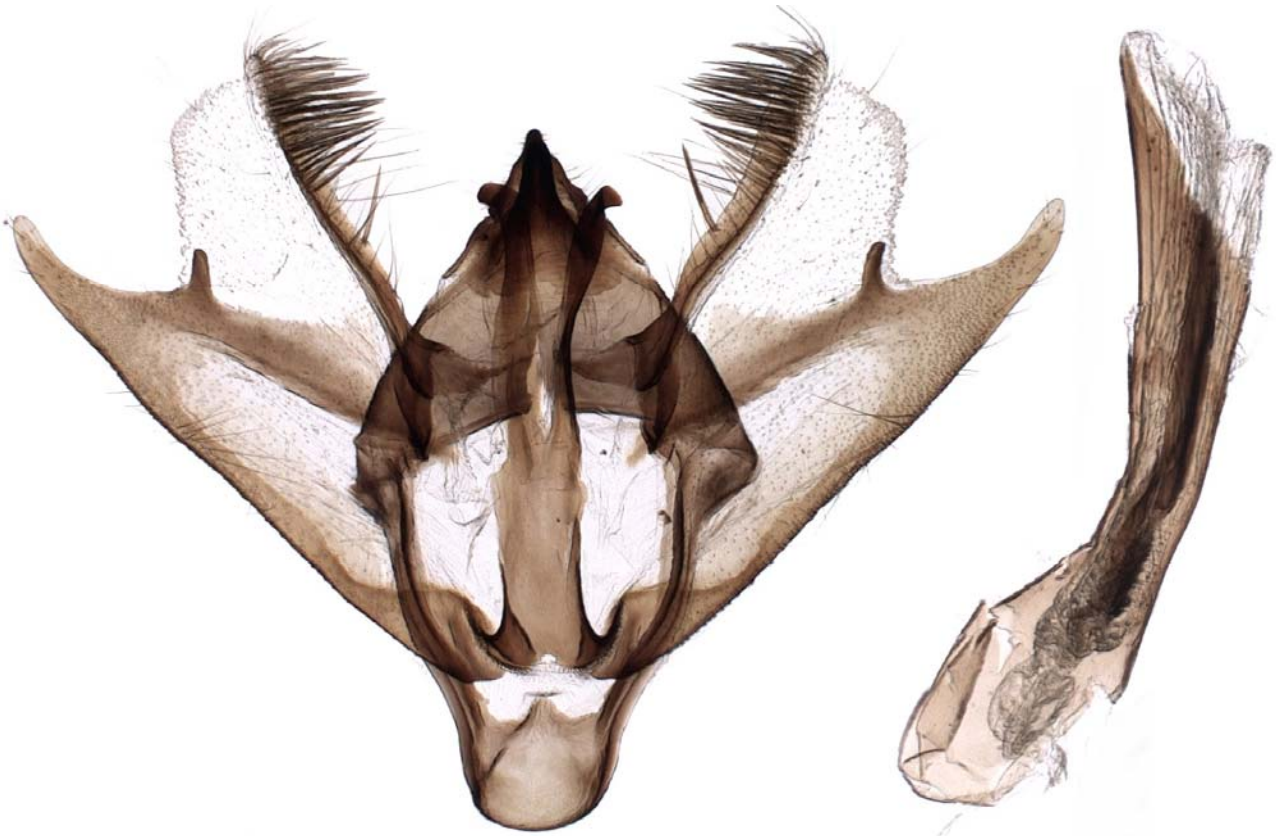


Fig. 60 – *Hyposcotis subtaurica* (Geometridae), male, GP2200, Uzunargit. M.Kemal (Cesa)



Fig. 61 - *Ethmia infelix* (Ethmiidae), female, GP2182. Uzunargit. M.Kemal (Cesa)

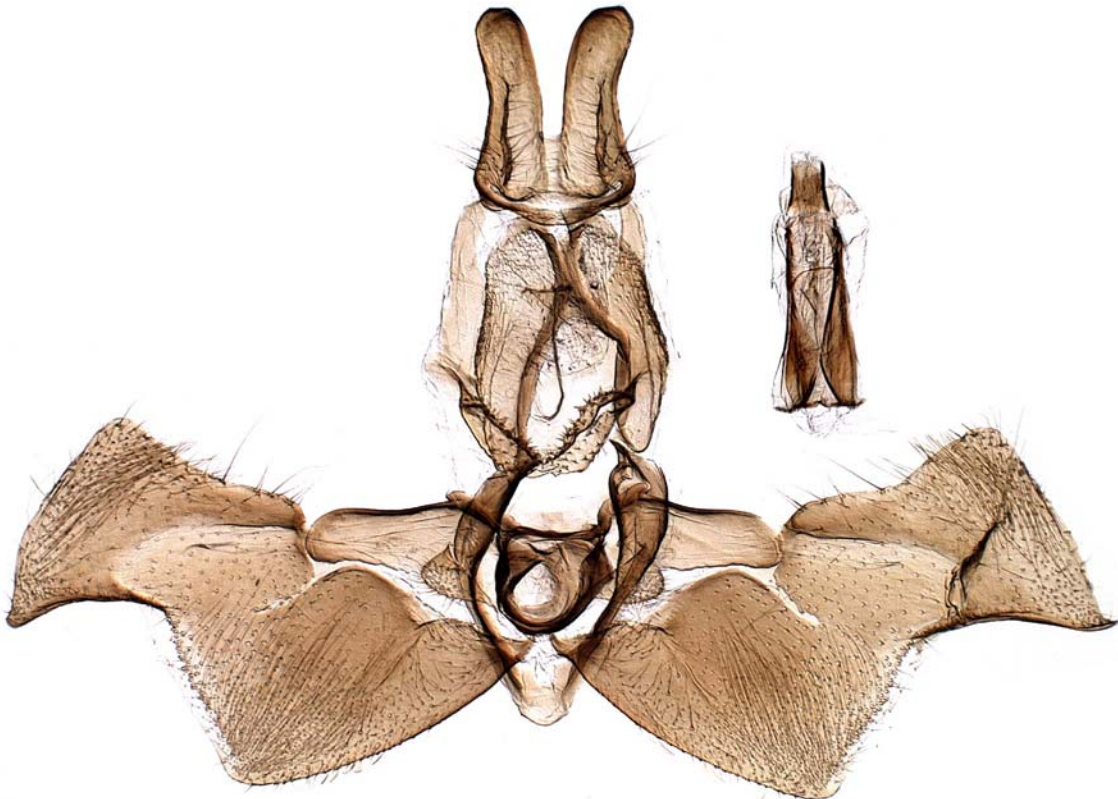


Fig. 62 - *Ethmia similis* (*Ethmiidae*), male, GP2181. Uzunargit. M.Kemal (Cesa)



Fig. 63 - *Caradrina (Paradrina) clavipalpis* (*Noctuidae*), male. GP2201, M.Kemal (Cesa)



Fig. 64 - *Homoeosoma sinuellum* (*Pyrallidae*), male, GP2211. Dadaş. M. Kemal (Cesa)

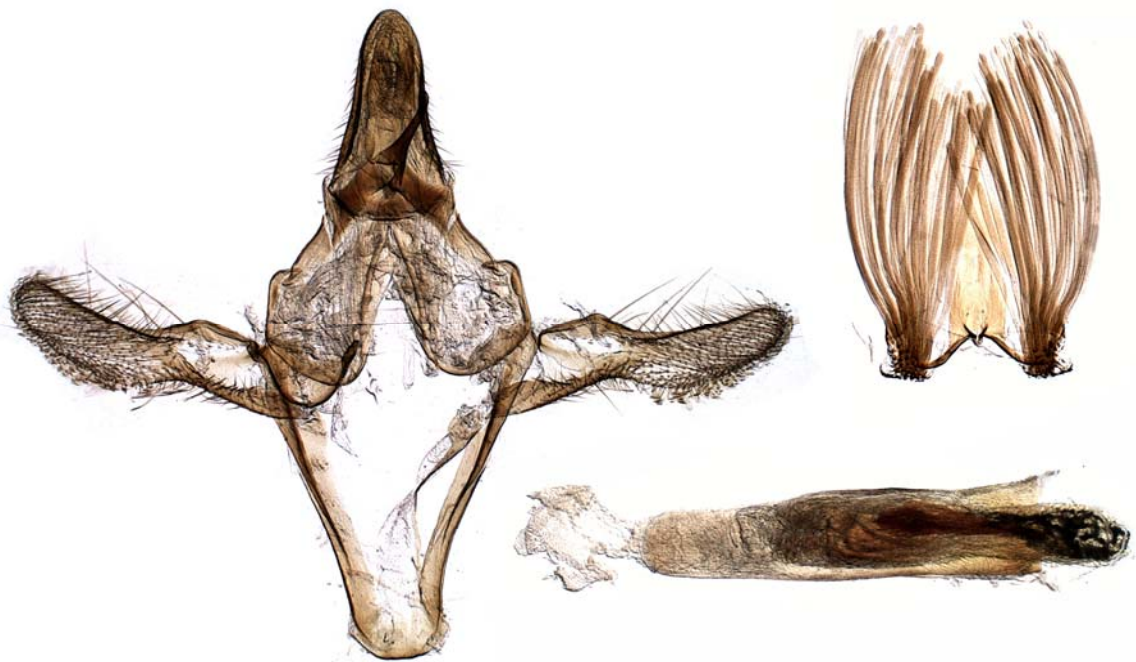


Fig. 65- *Pseudosyria sororiella* (*Pyrallidae*), male. GP2194, Uzunargit. M.Kemal (Cesa)



Fig. 66 – *Scythris apicalis* (Scythridae), male. GP2162. Dadaş 17 05 2015. M Kemal (Cesa)

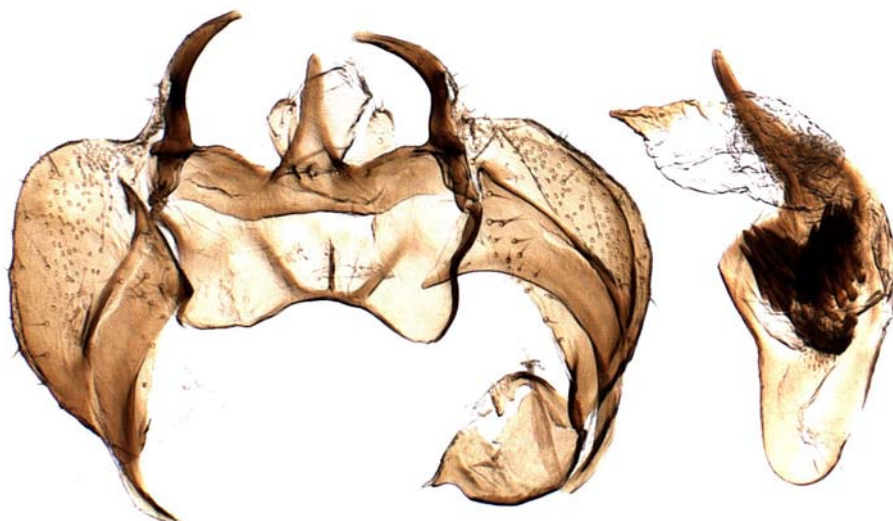


Fig. 67 – *Diceratura roseofasciana* (Tortricidae), male. GP2189. Uzunargit. M Kemal (Cesa)



Fig. 68 – *Lobesia porrectana* (Tortricidae), male. GP2183. Uzunargit. M Kemal (Cesa)

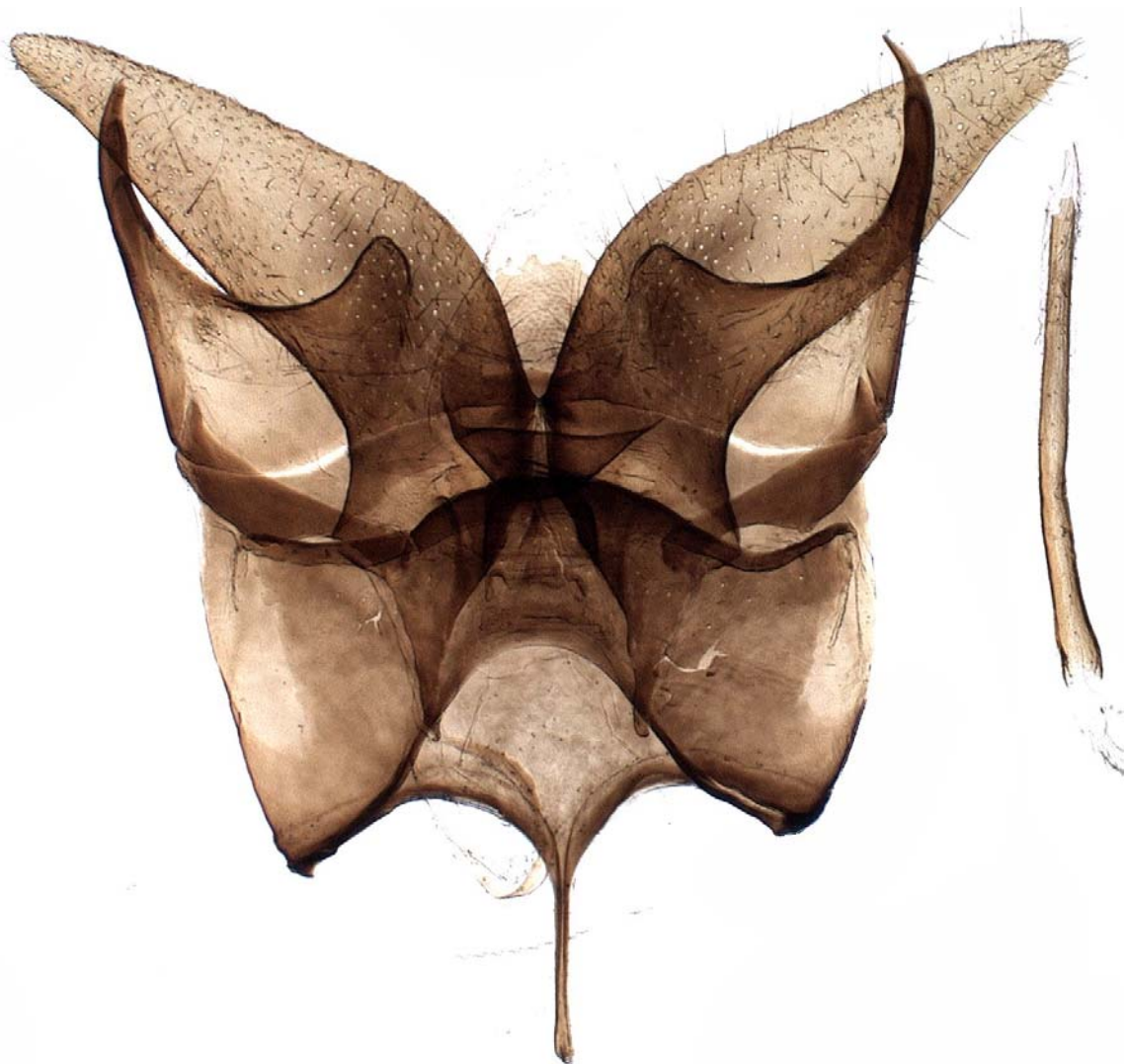
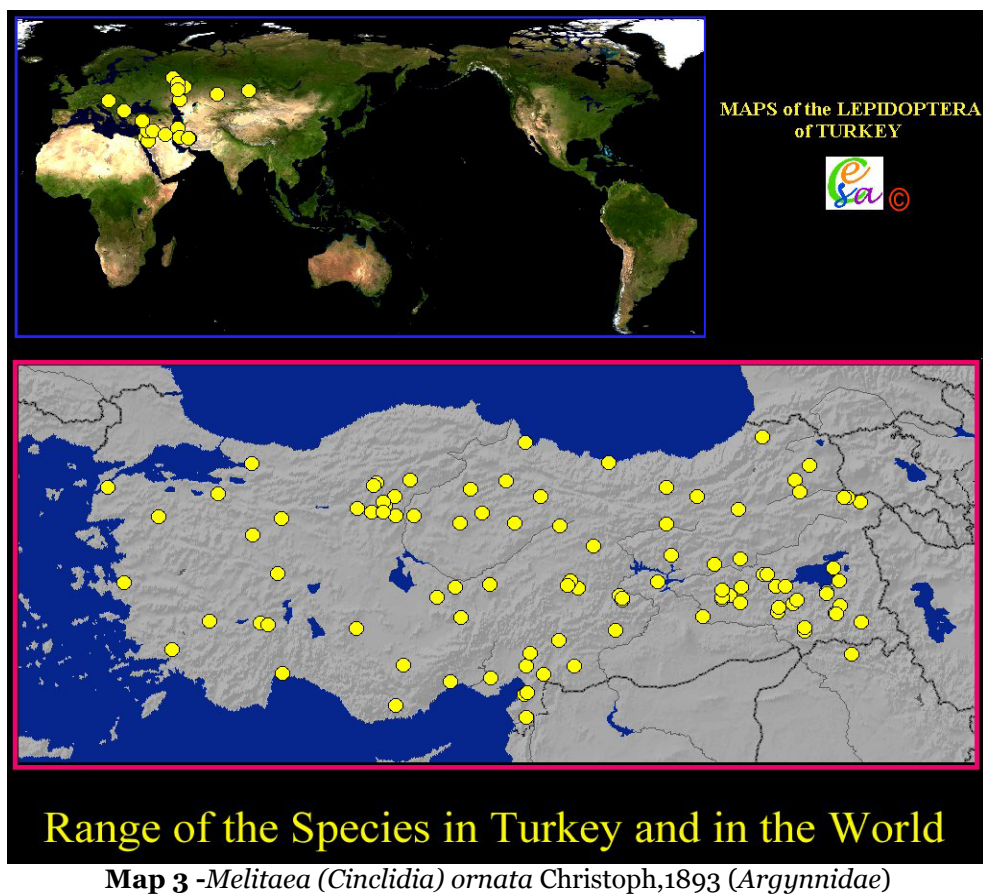
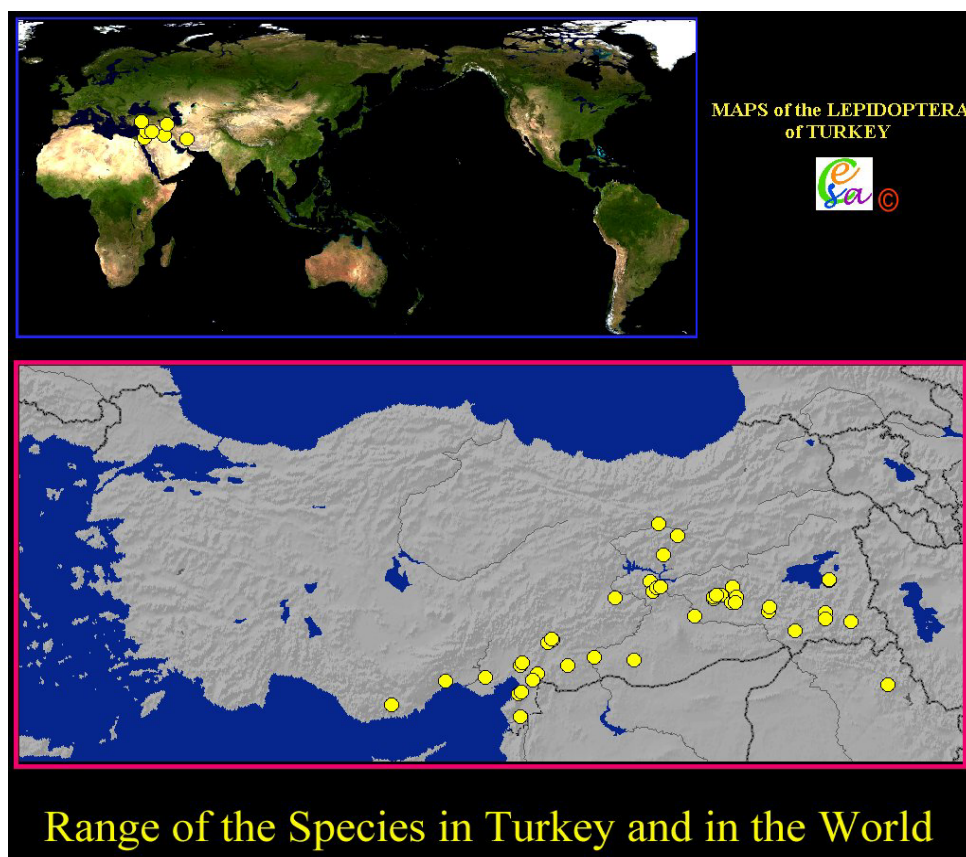
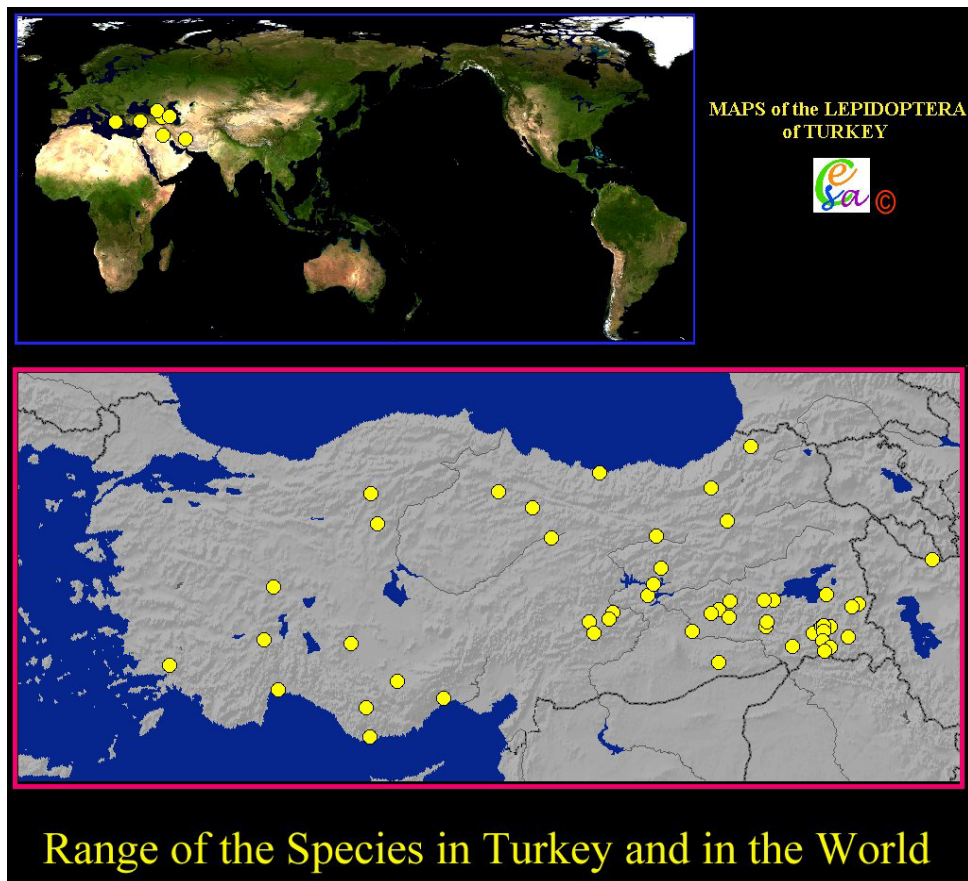


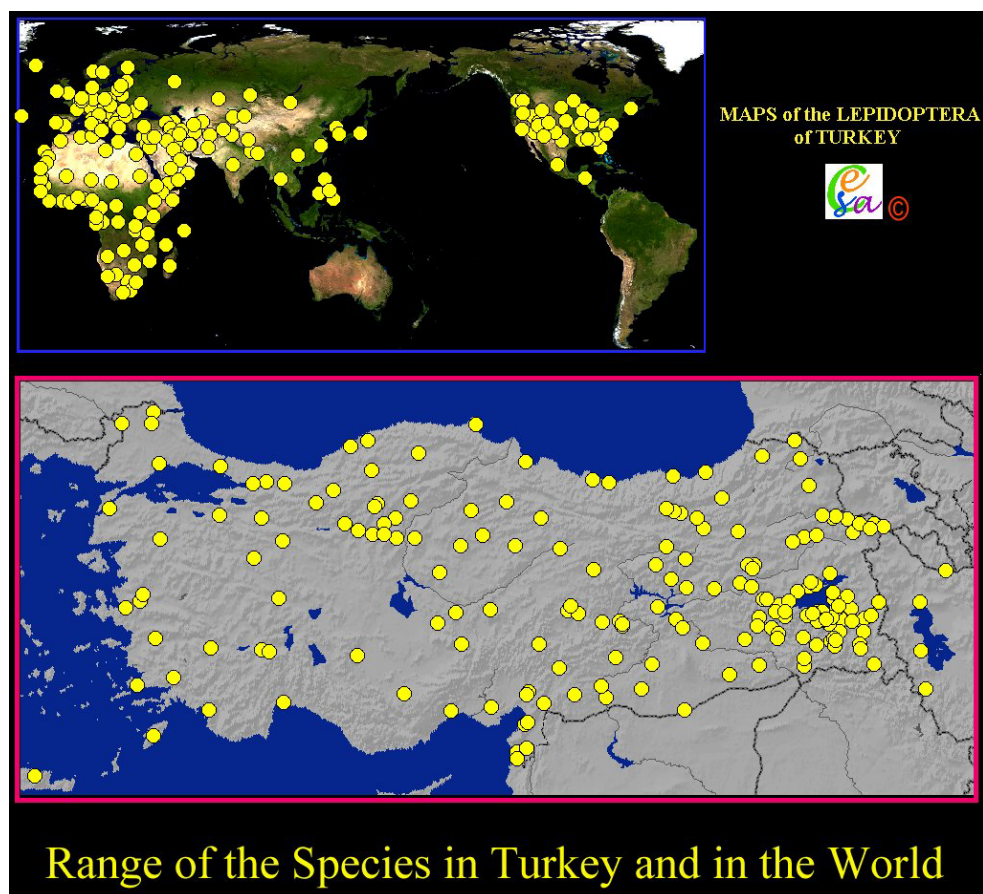
Fig. 69 – *Ceratuncus affinitellus* (Tineidae), male, GP2195. Uzunargit. M Kemal (Cesa)

Distributional maps of the species

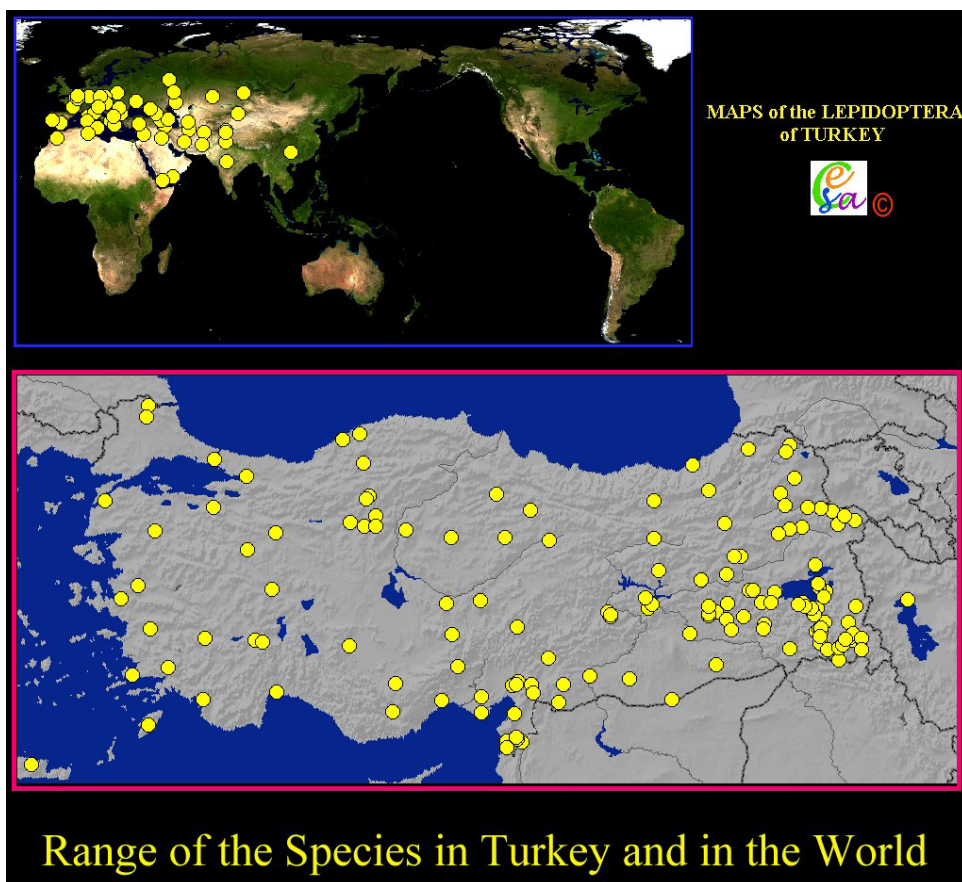




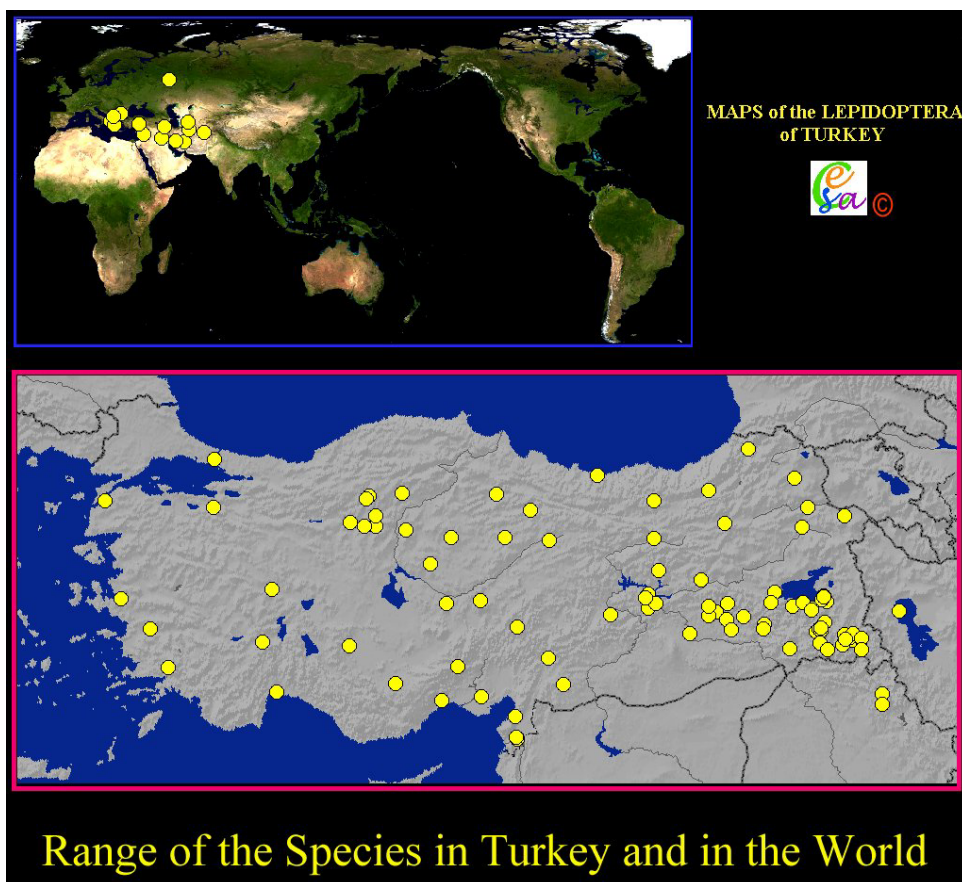
Map 4 -*Thaleropsis ionia* (Eversmann,1851) (Argynnidae)



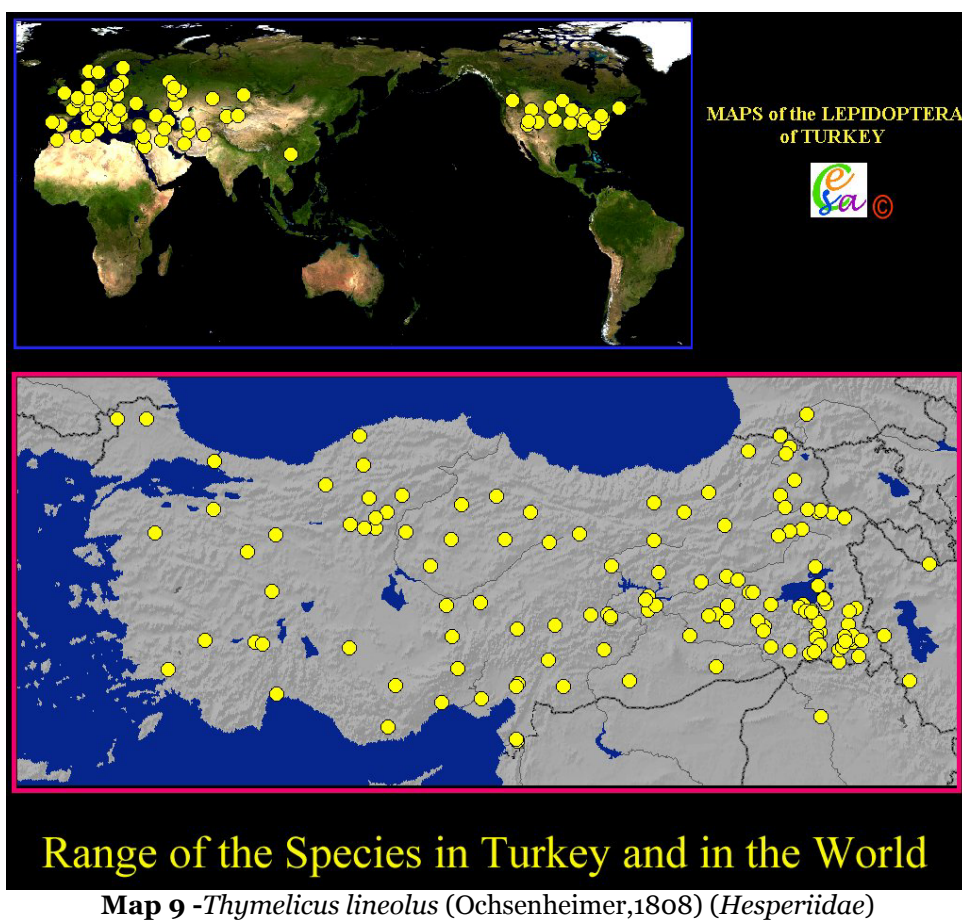
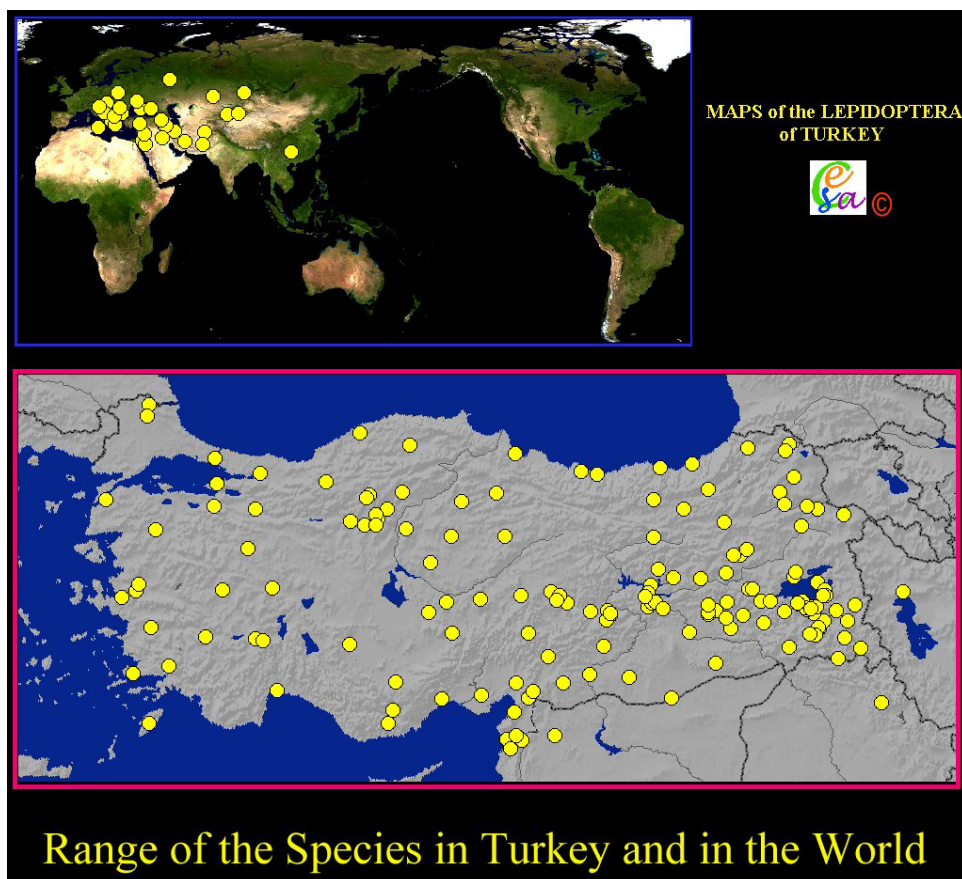
Map 5 -*Vanessa (Cynthia) cardui* (Linnaeus,1758) (Argynnidae)

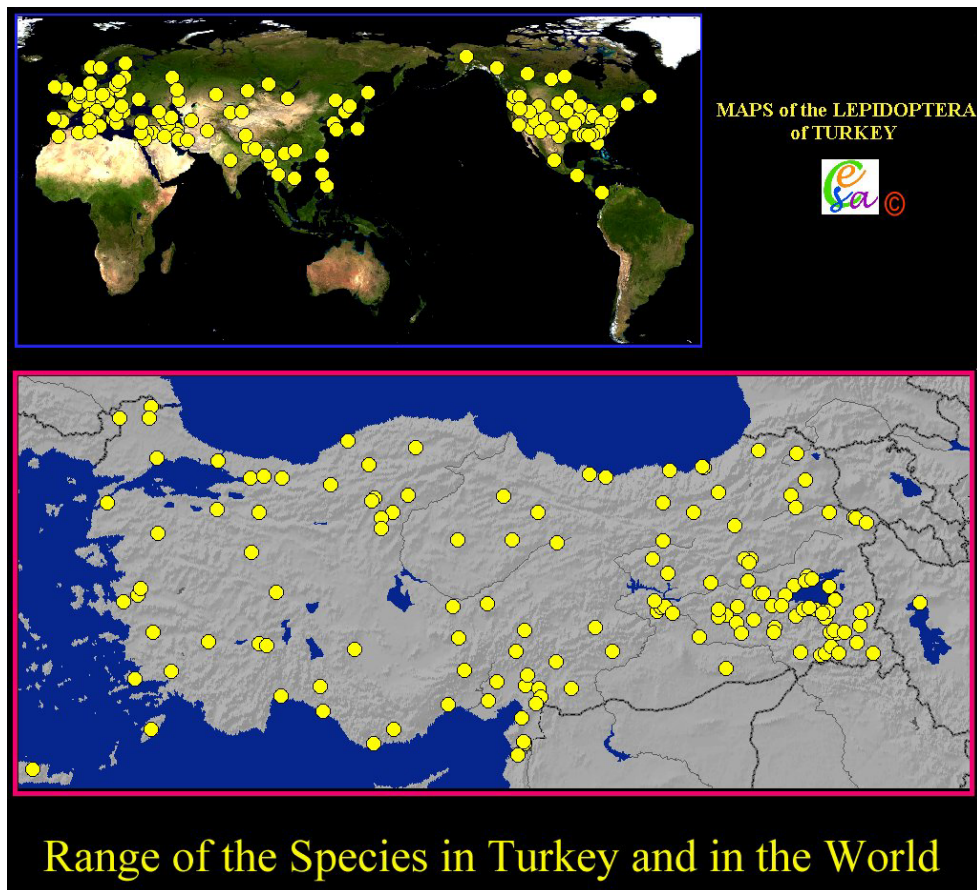


Map 6 -*Carcharodus (s.str.) alceae* (Esper,[1780]) (*Hesperiidae*)

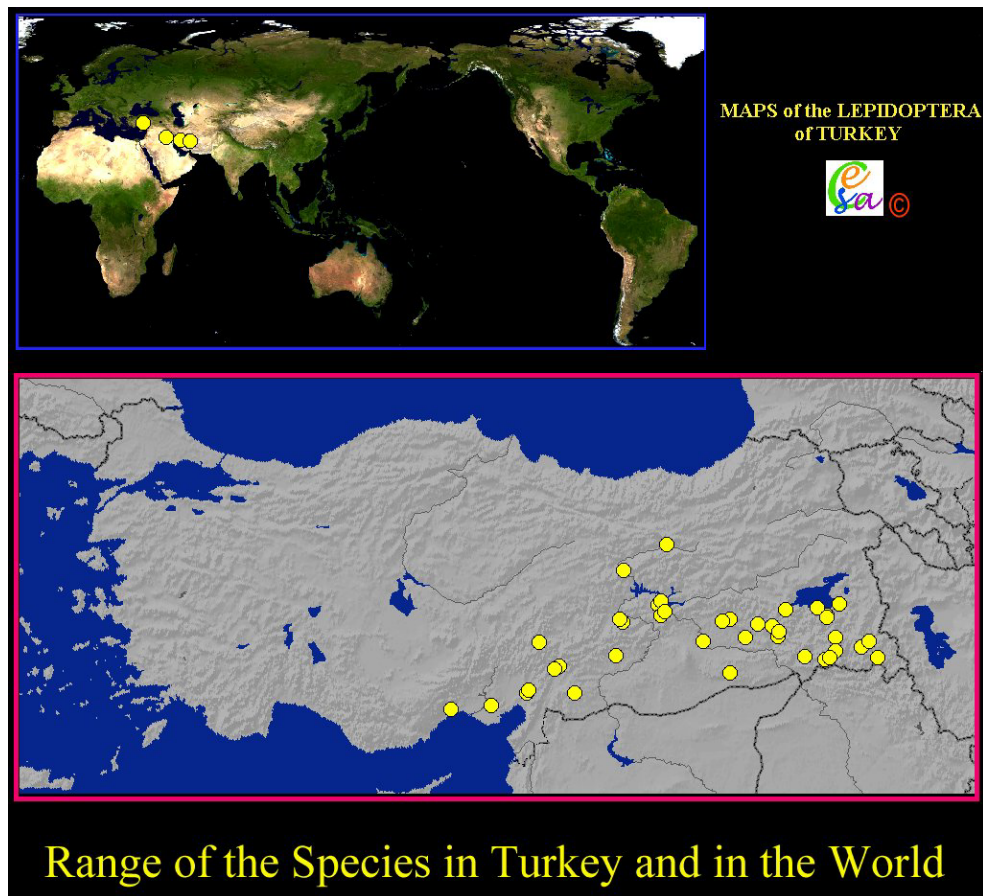


Map 7 -*Erynnis (Heseropegasus) marloyi* (Boisduval,[1834]) (*Hesperiidae*)

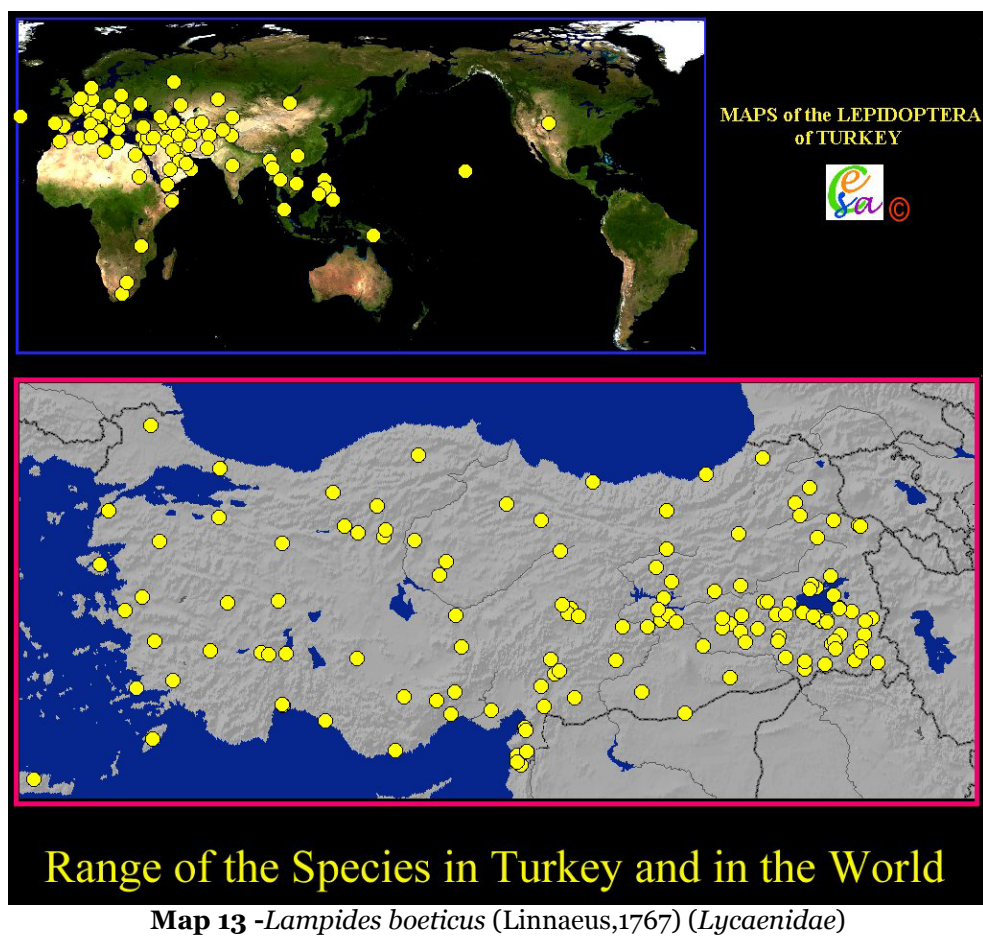
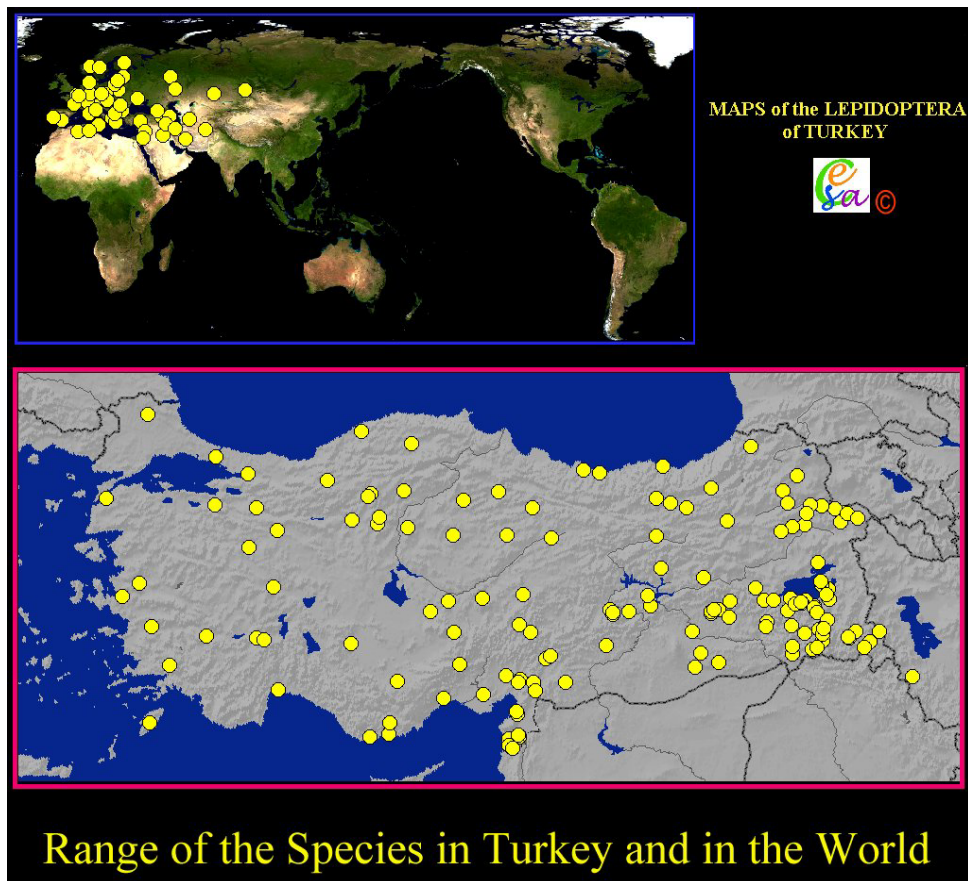


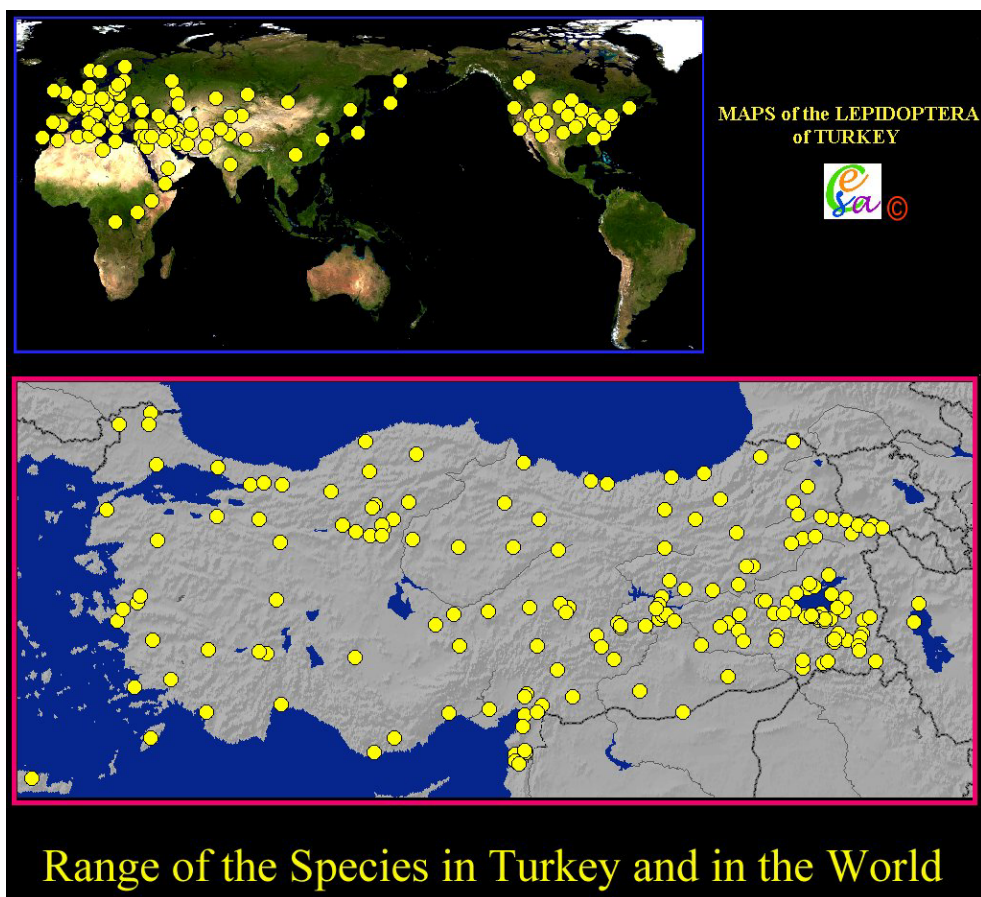


Map 10 -*Celastrina argiolus* (Linnaeus,1758) (*Lycaenidae*)

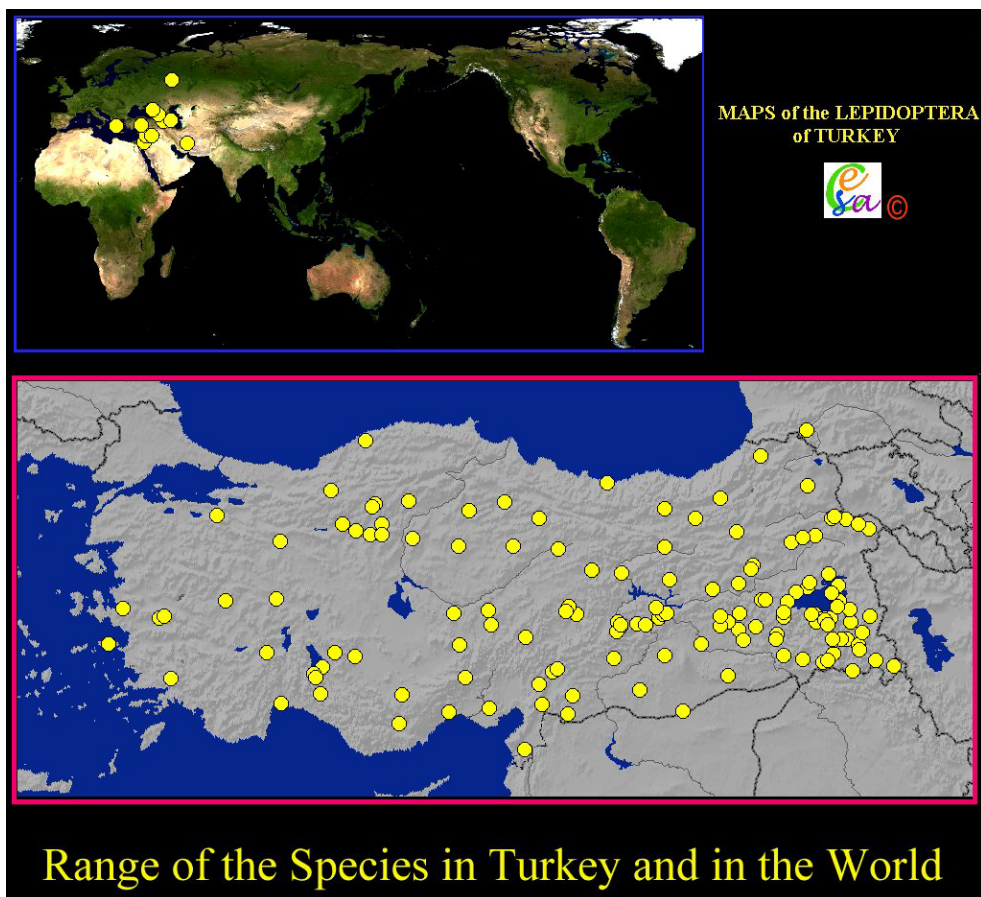


Map 11 -*Cigaritis uighurica* Kemal & Koçak,2005 (*Lycaenidae*)

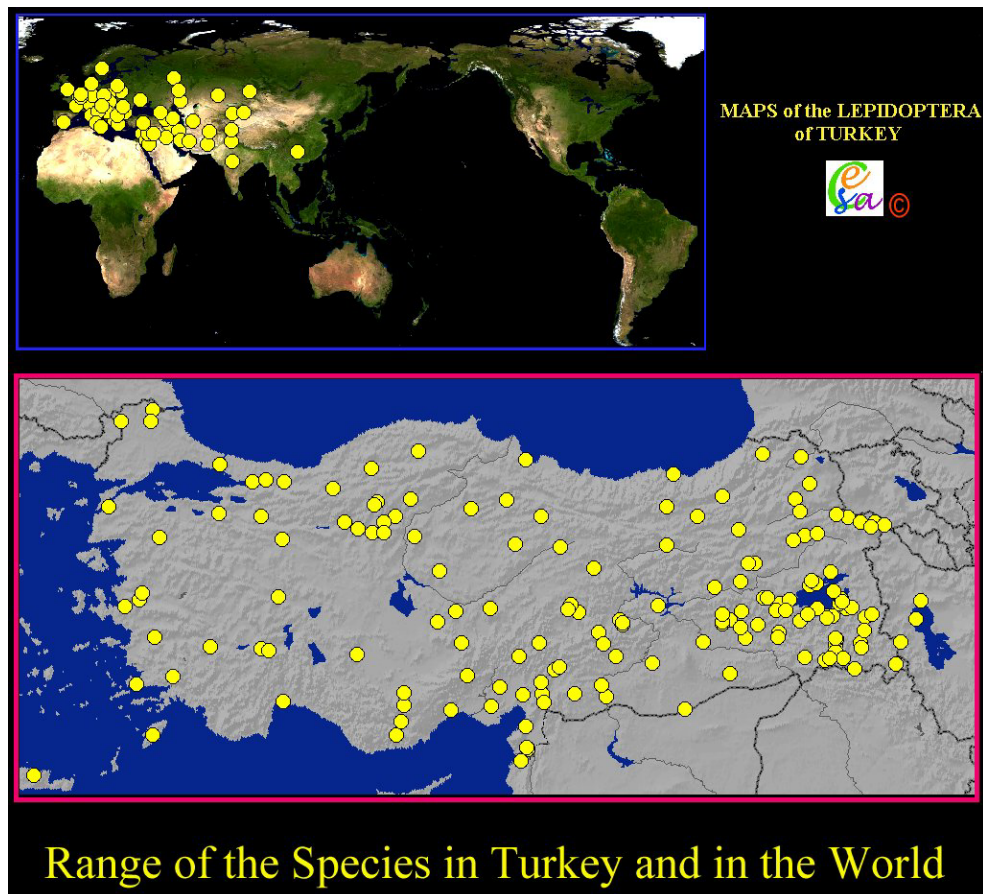




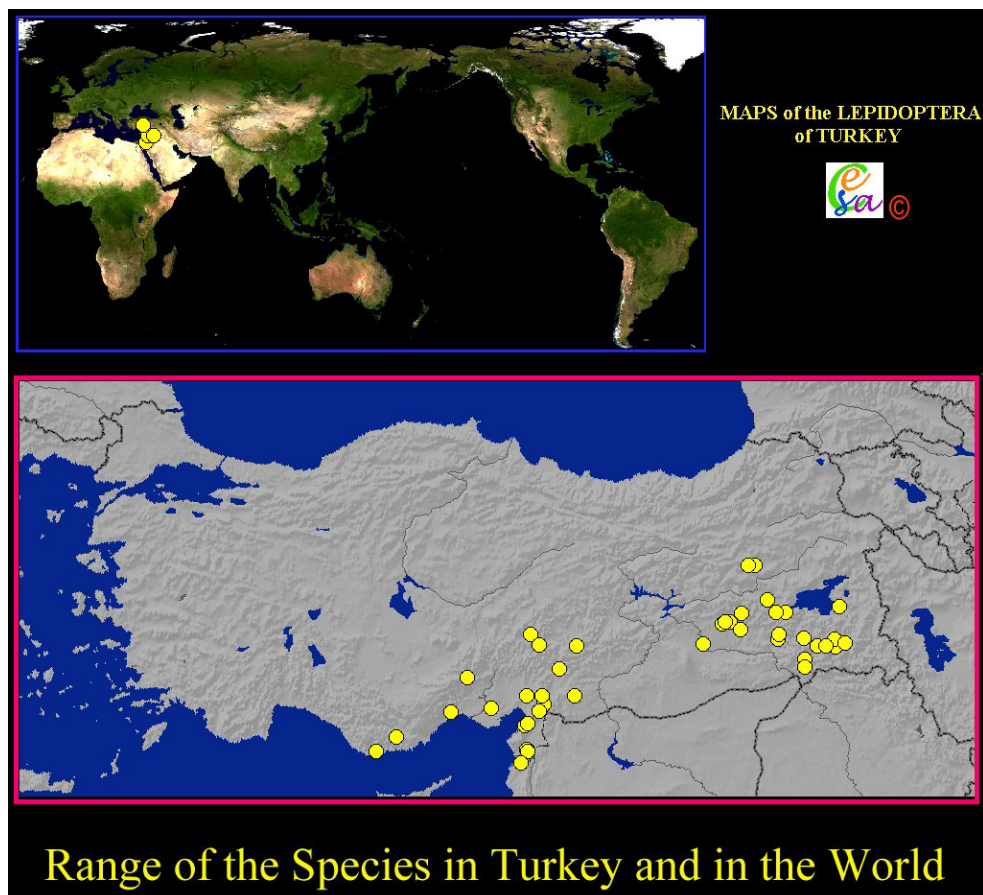
Map 14 -*Lycaena (s.str.) phlaeas* (Linnaeus,1761) (*Lycaenidae*)



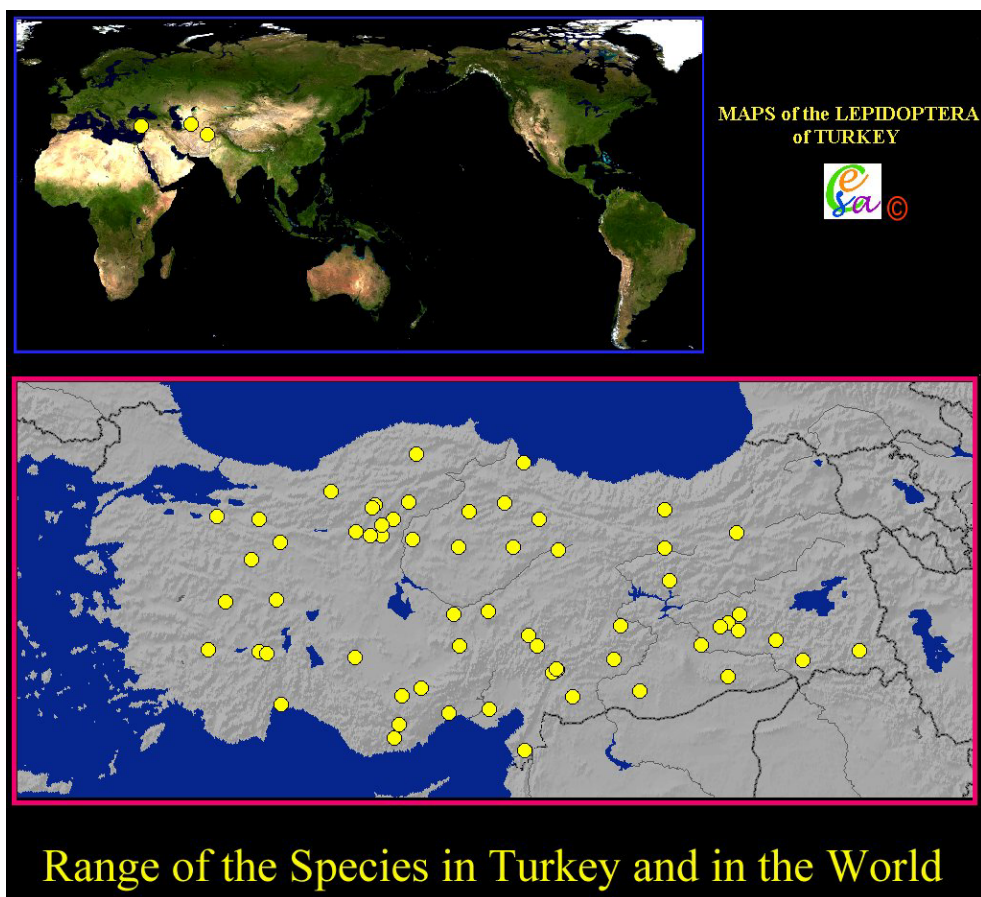
Map 15 -*Plebejus (Kretania) carmon* (Gerhard,[1851]) (*Lycaenidae*)



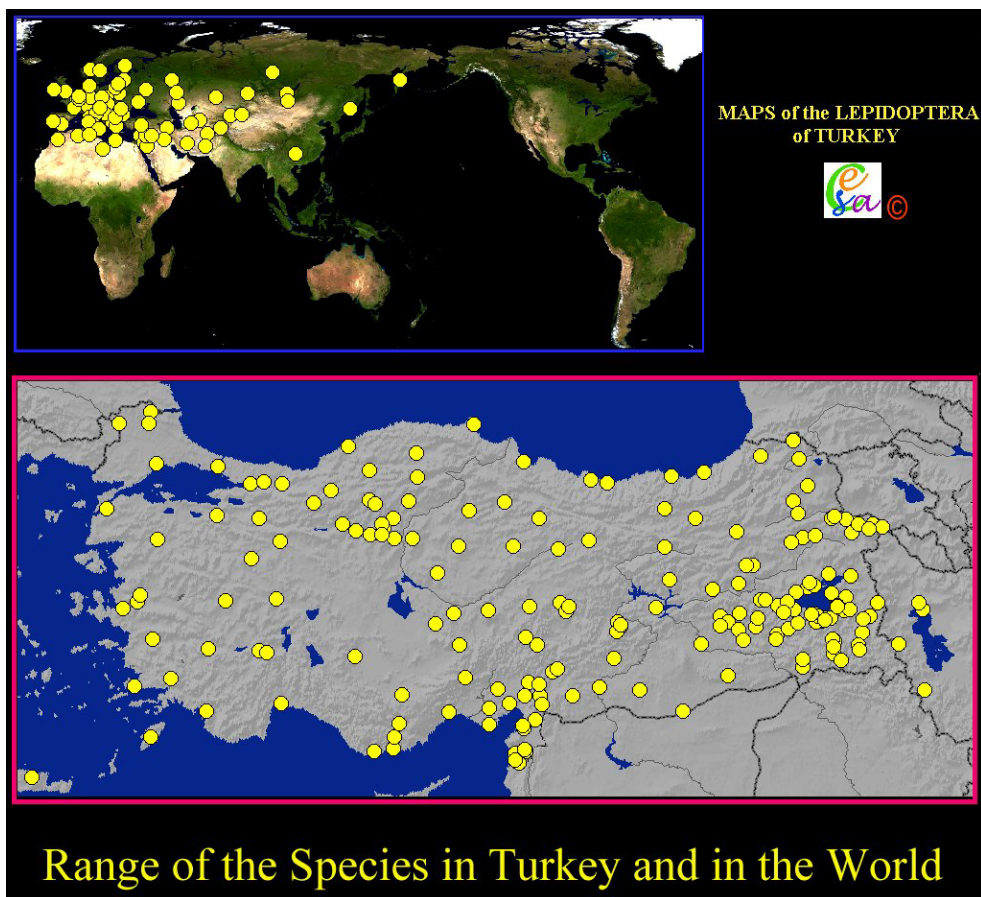
Map 16 -*Polyommatus (Aricia (s.str.)) agestis* ([Denis & Schiffermüller],1775) (*Lycaenidae*)



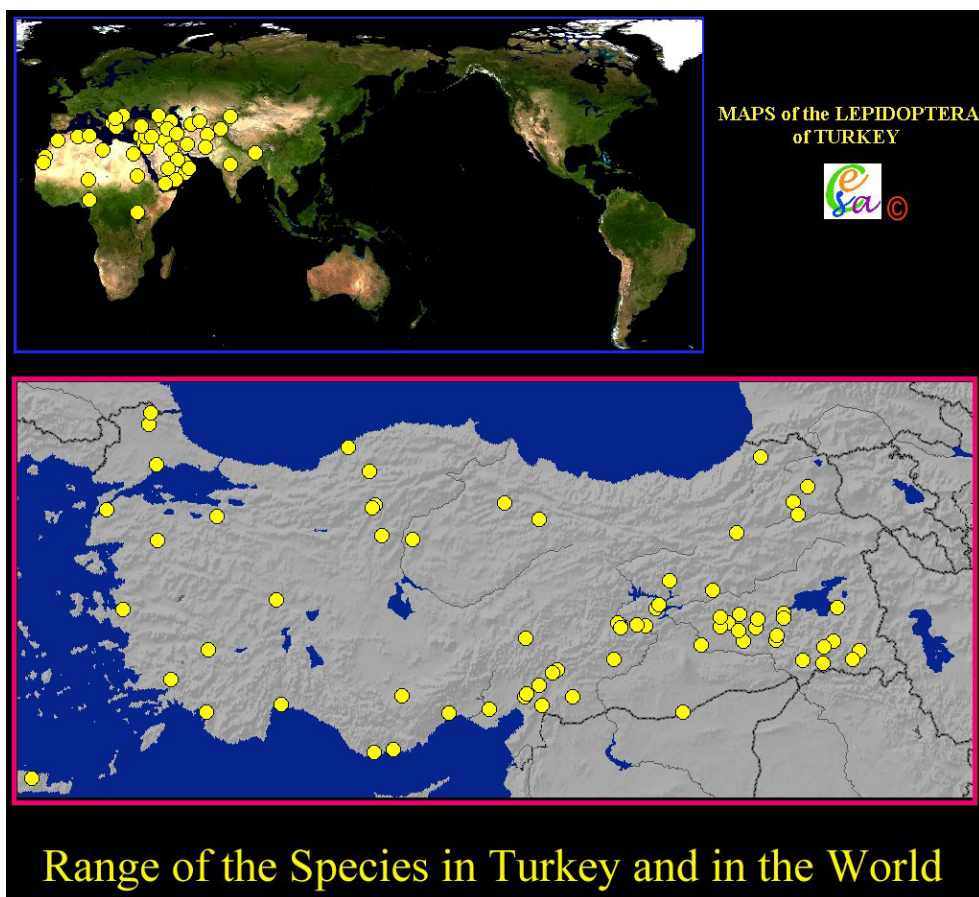
Map 17 -*Polyommatus (s.str. (Cyaniris)) antiochenus* (Lederer,1861) (*Lycaenidae*)



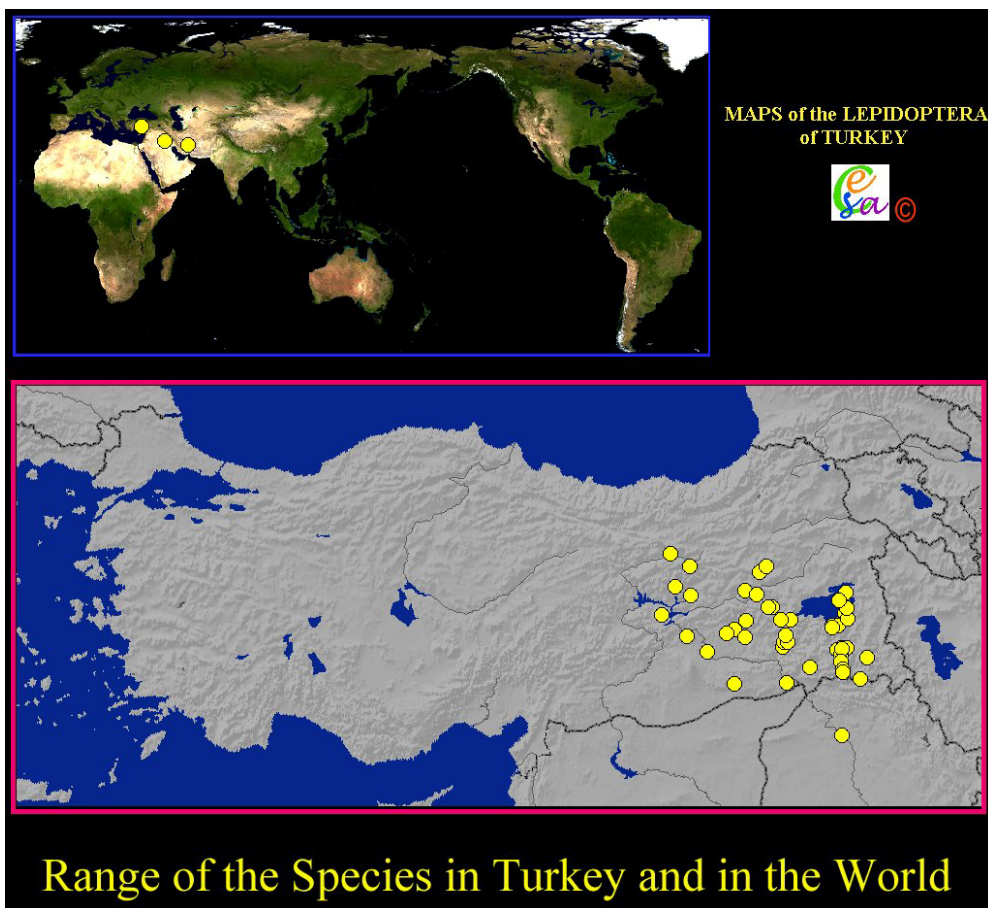
Map 18 -*Polyommatus (s.str. (Sublysandra)) cornelius* (Freyer,[1850]) (*Lycaenidae*)



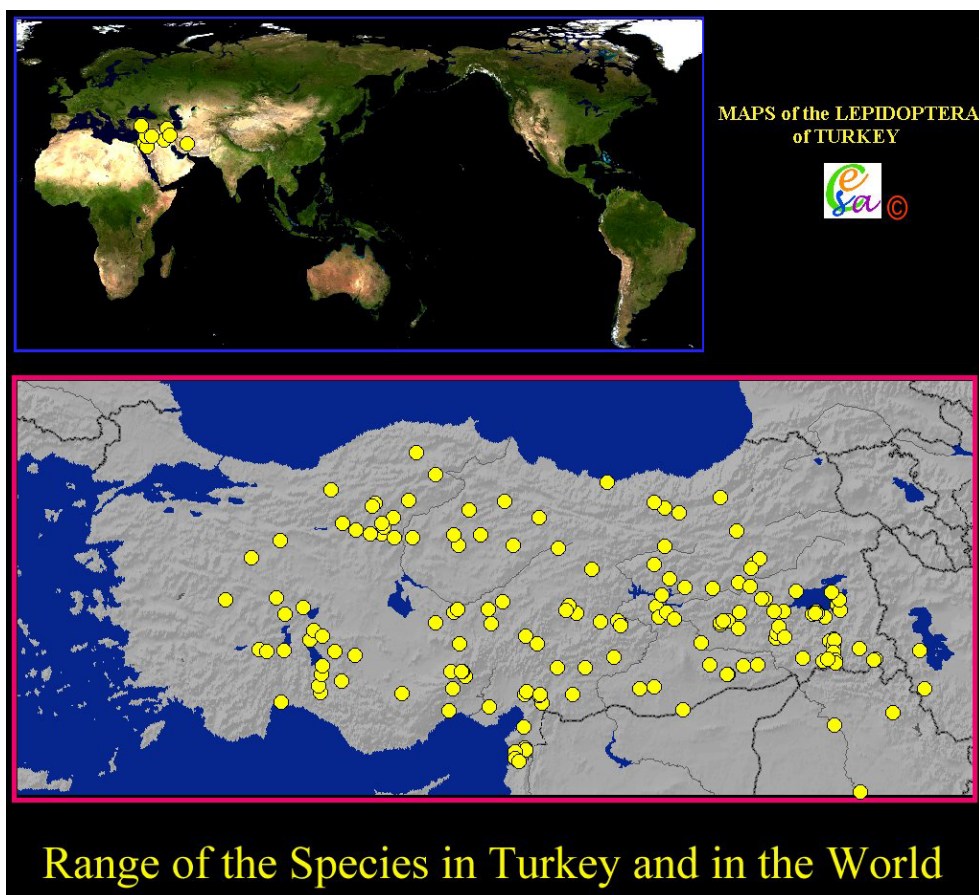
Map 19 -*Polyommatus (s.str.) icarus* (Rottemburg,1775) (*Lycaenidae*)



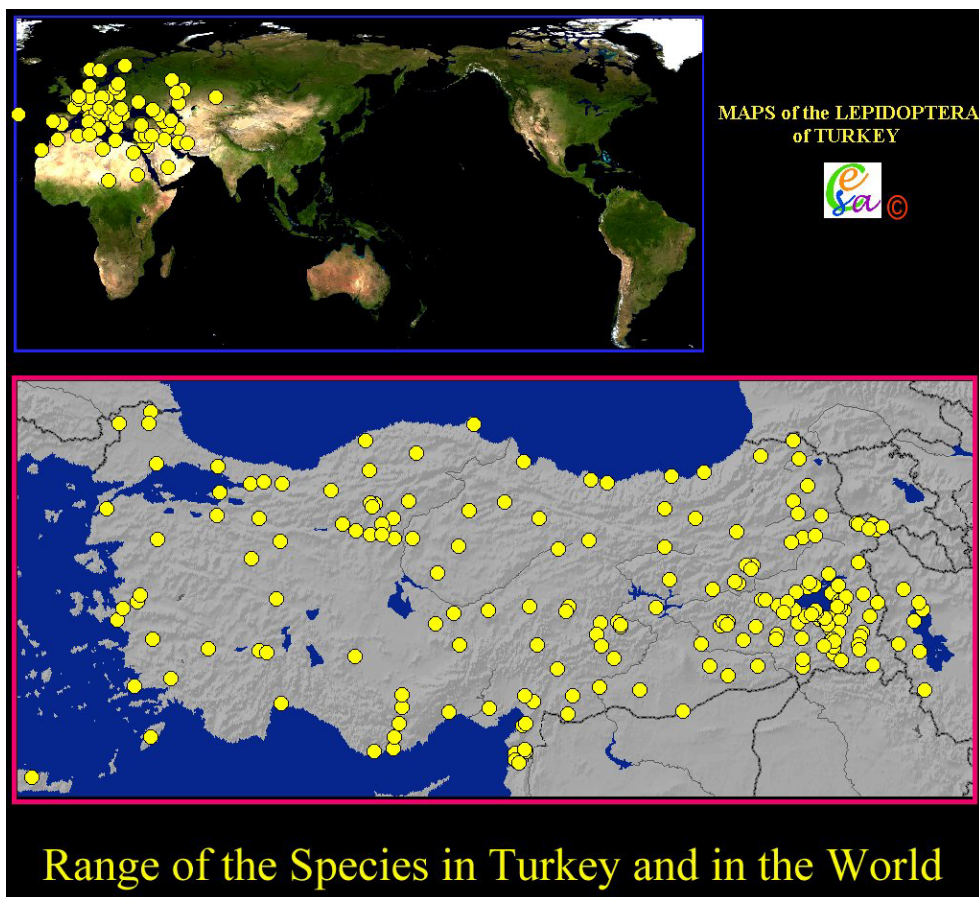
Map 20 - *Tarucus (s.str.) balkanicus* (Freyer,[1843]) (*Lycaenidae*)



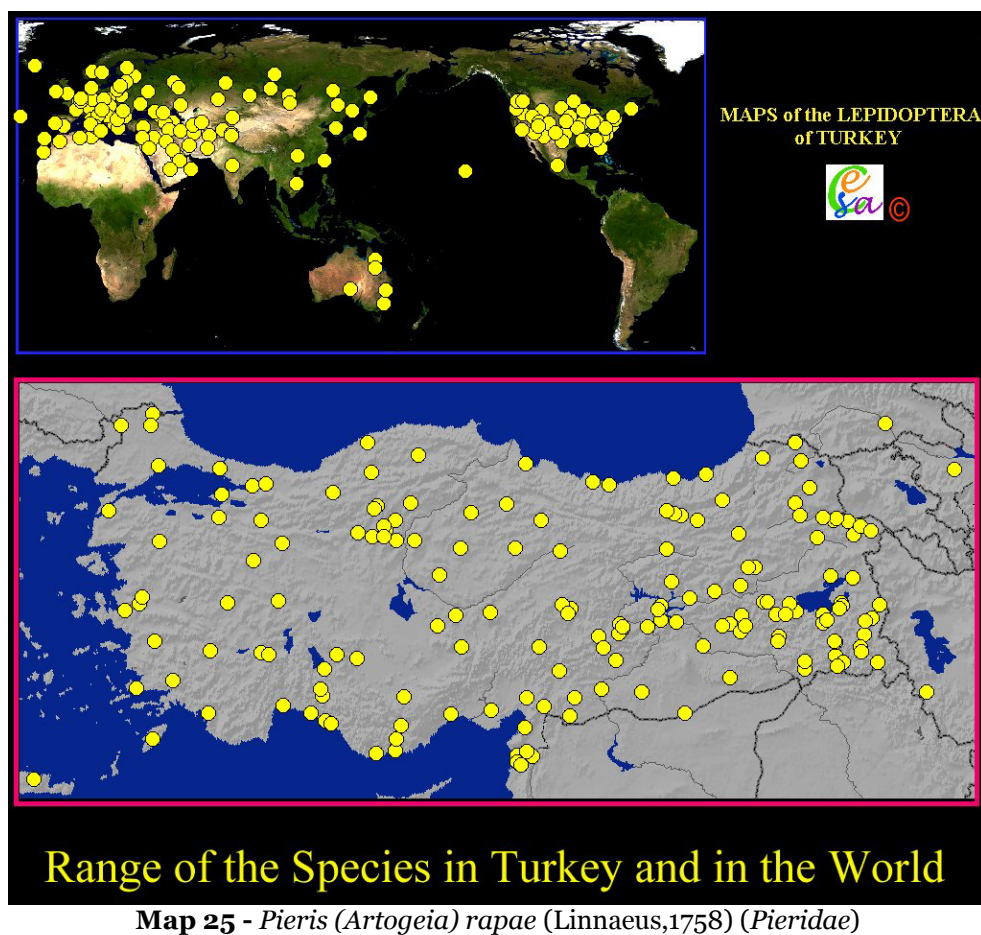
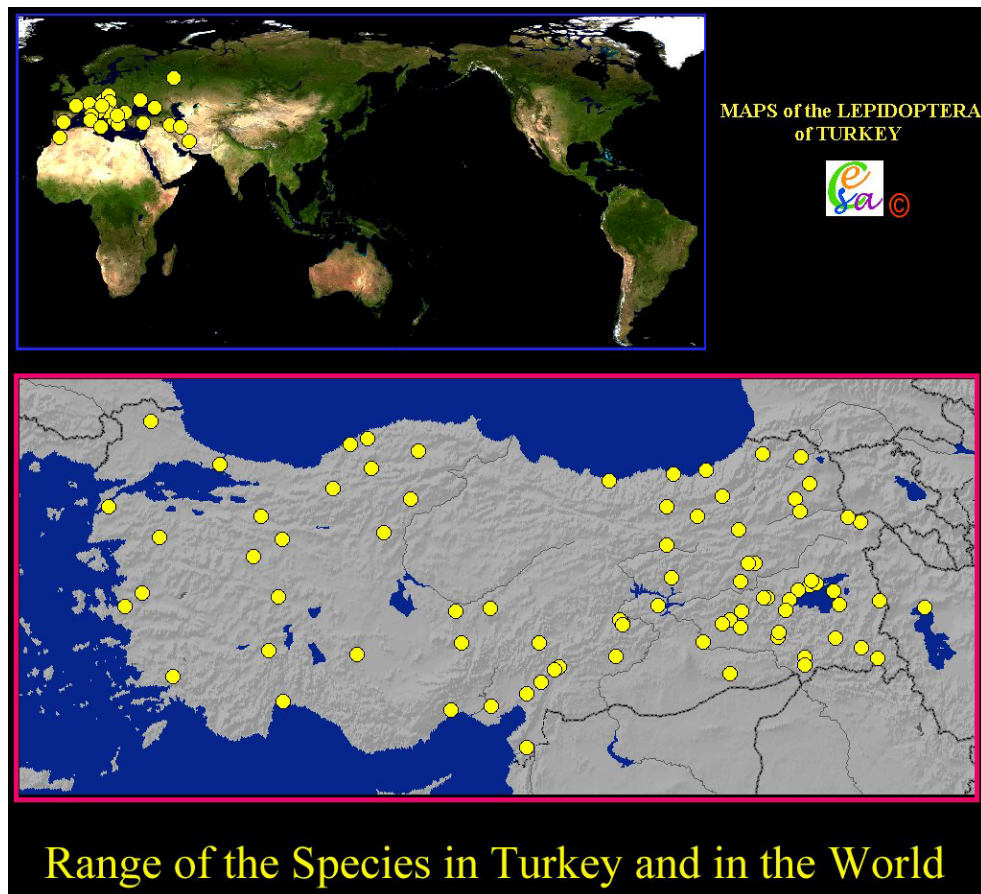
Map 21 - *Archon apollinaris* (Staudinger,[1892]) (*Papilionidae*)

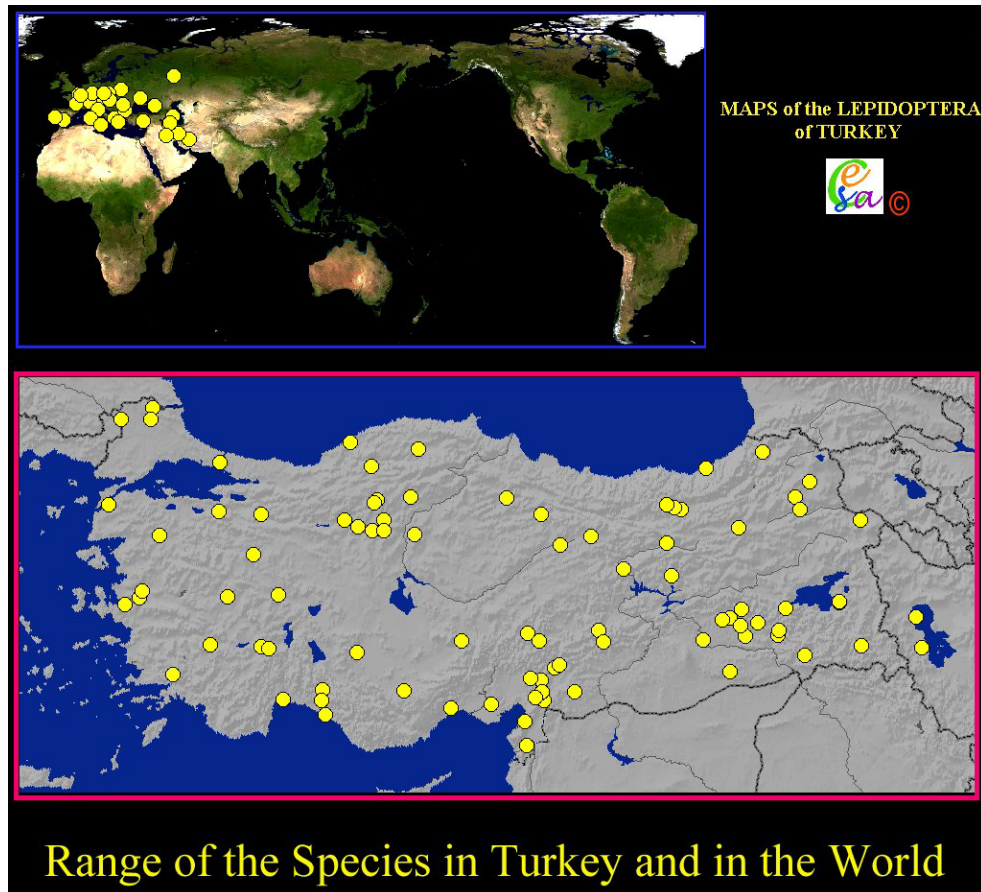


Map 22 - *Zerynthia (Allancastris) deyrollei* (Oberthür, 1869) (Papilionidae)

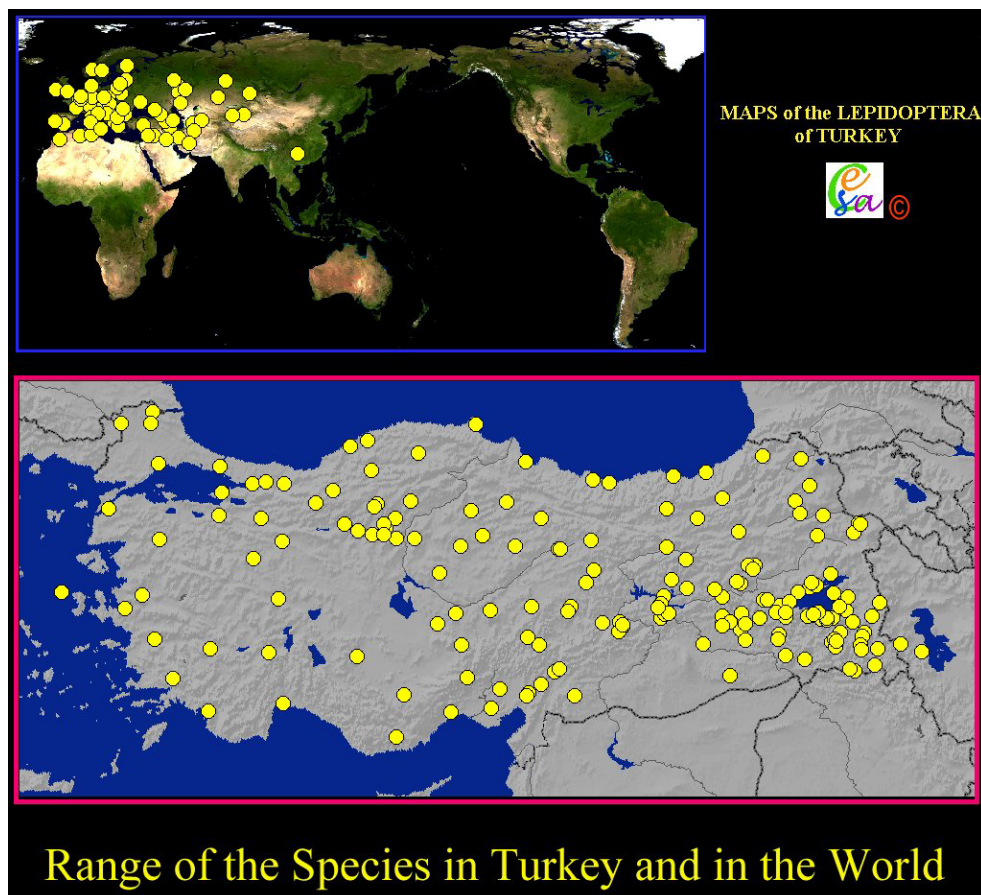


Map 23 - *Colias (Eriocolias) crocea* (Fourcroy, 1785) (Pieridae)

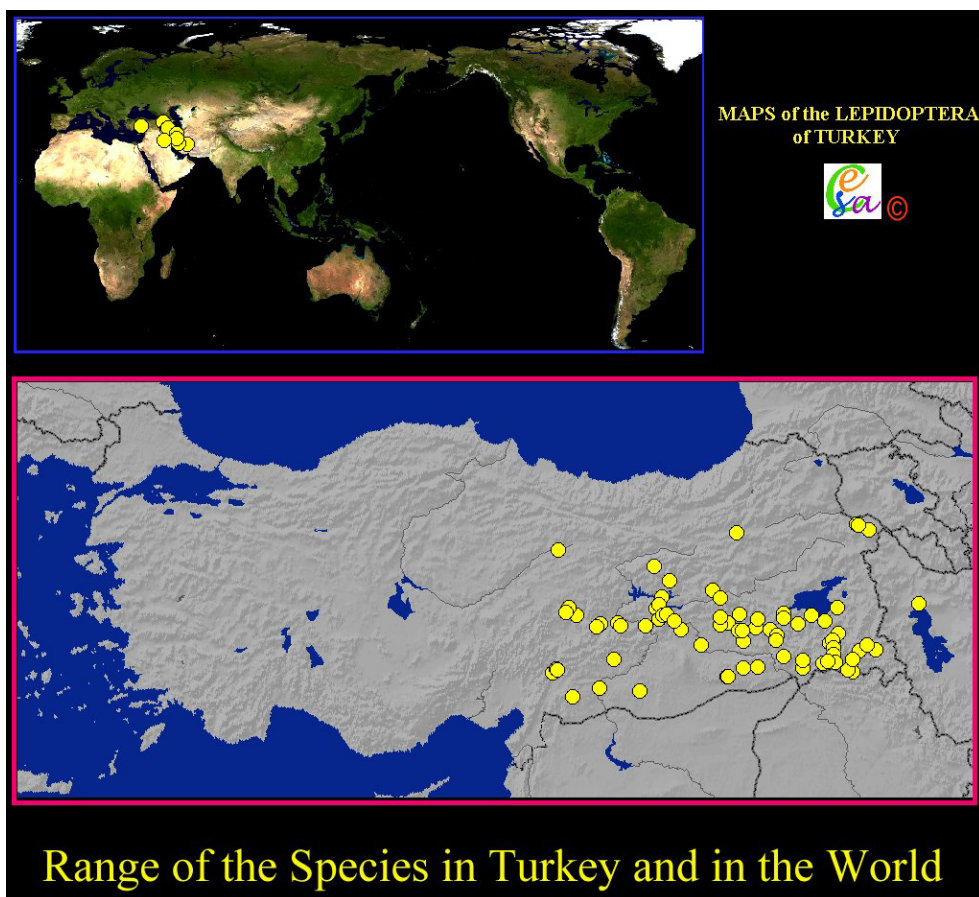




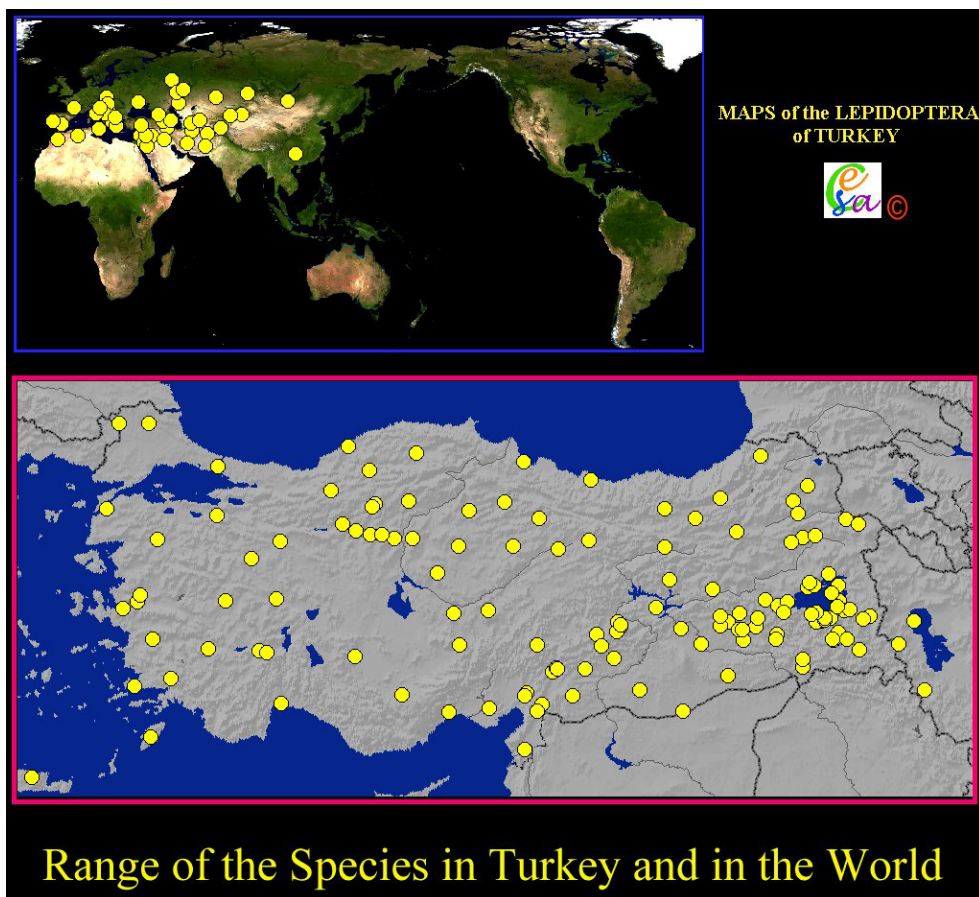
Map 26 - *Brintesia circe* (Fabricius, 1775) (Satyridae)



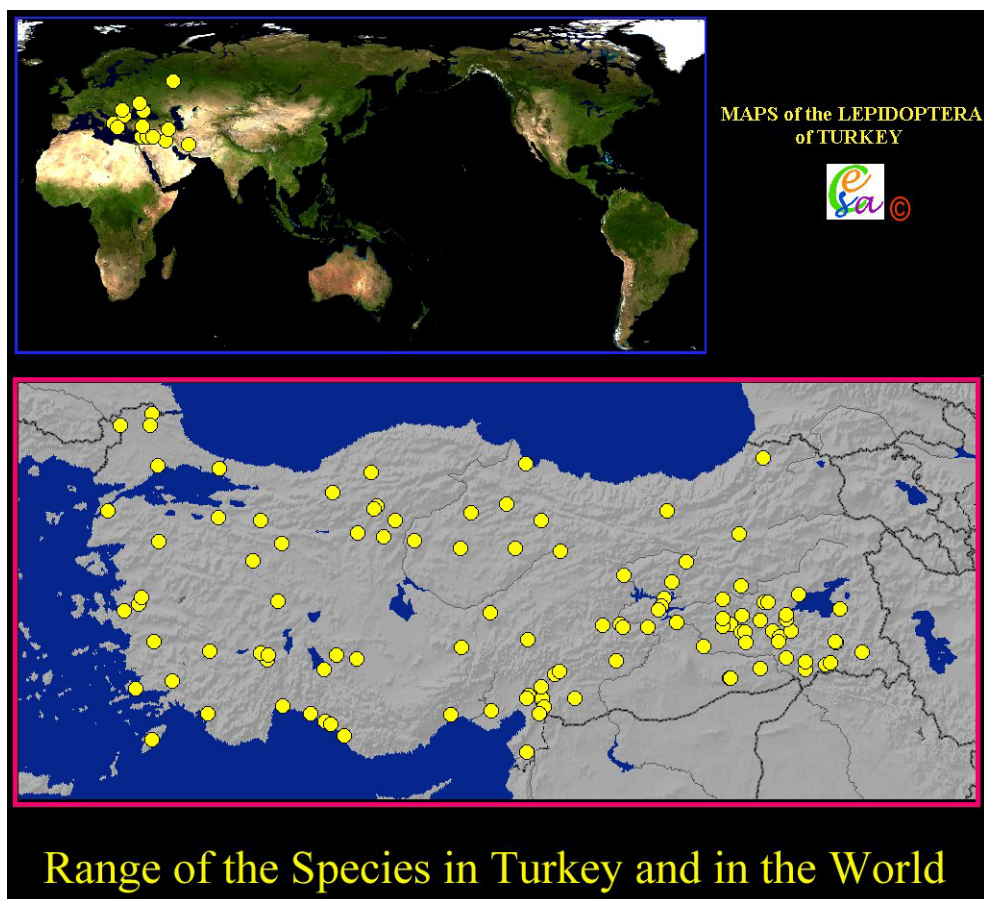
Map 27 - *Coenonympha* (s.str.) *pamphilus* (Linnaeus, 1758) (Satyridae)



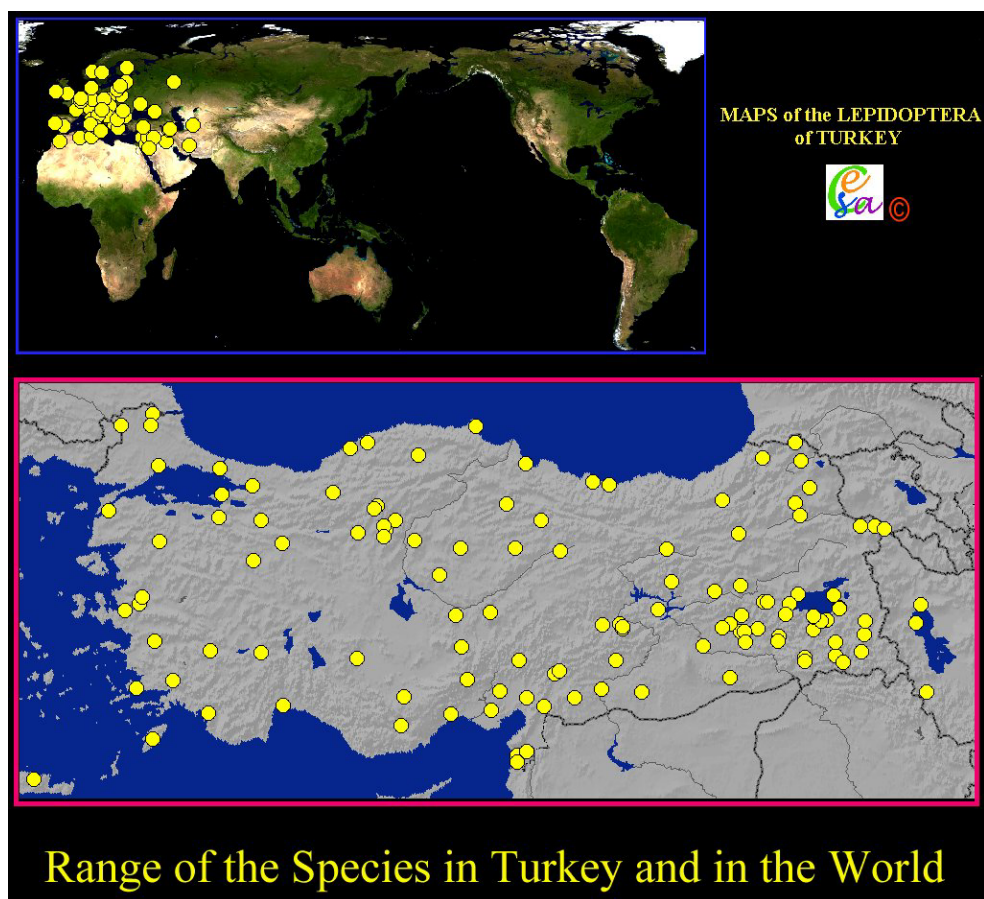
Map 28 - *Coenonympha (s.str.) saadi* (Kollar,[1849]) (Satyridae)



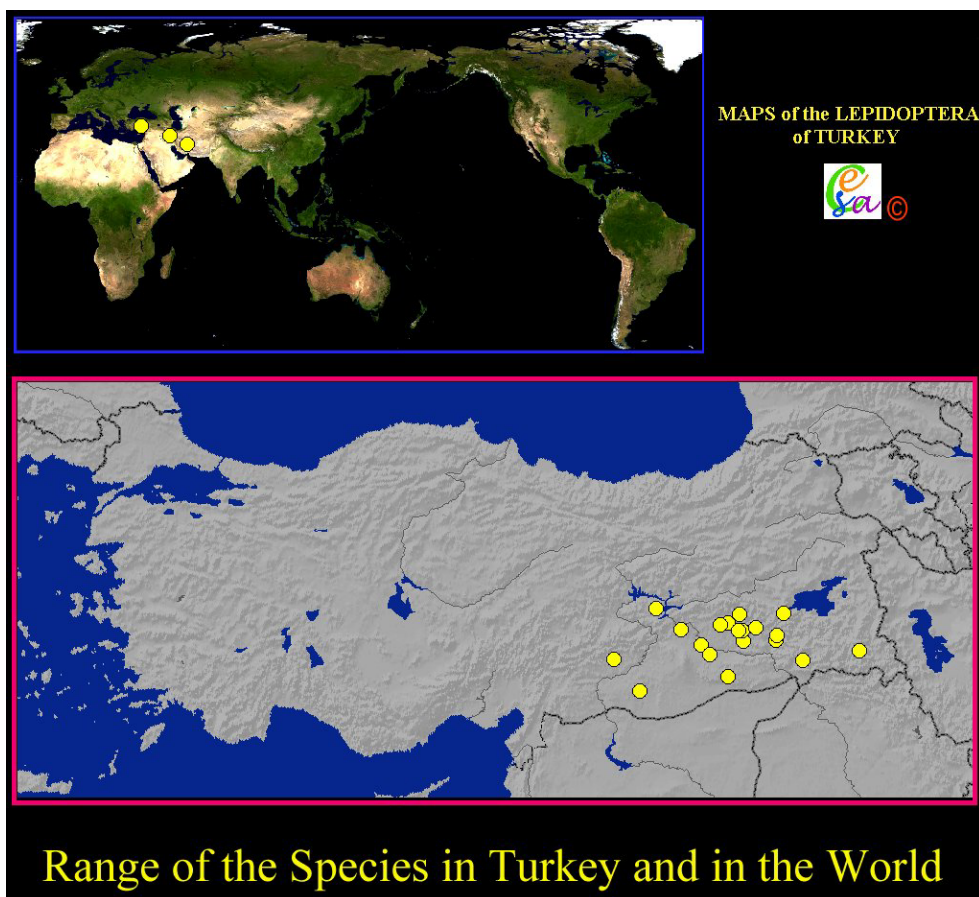
Map 29 - *Hyponephele (s.str.) lupina* (Costa,[1836]) (Satyridae)



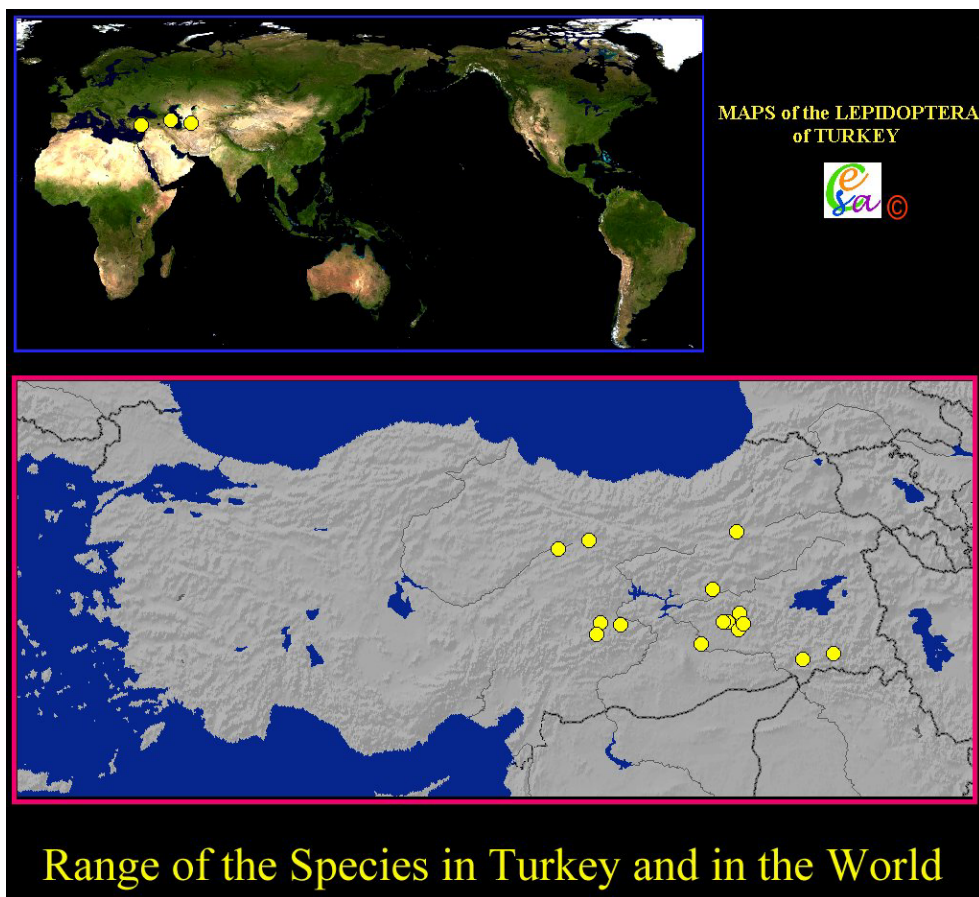
Map 30 - *Kirinia (Melike) roxelana* (Cramer,[1777]) (Satyridae)



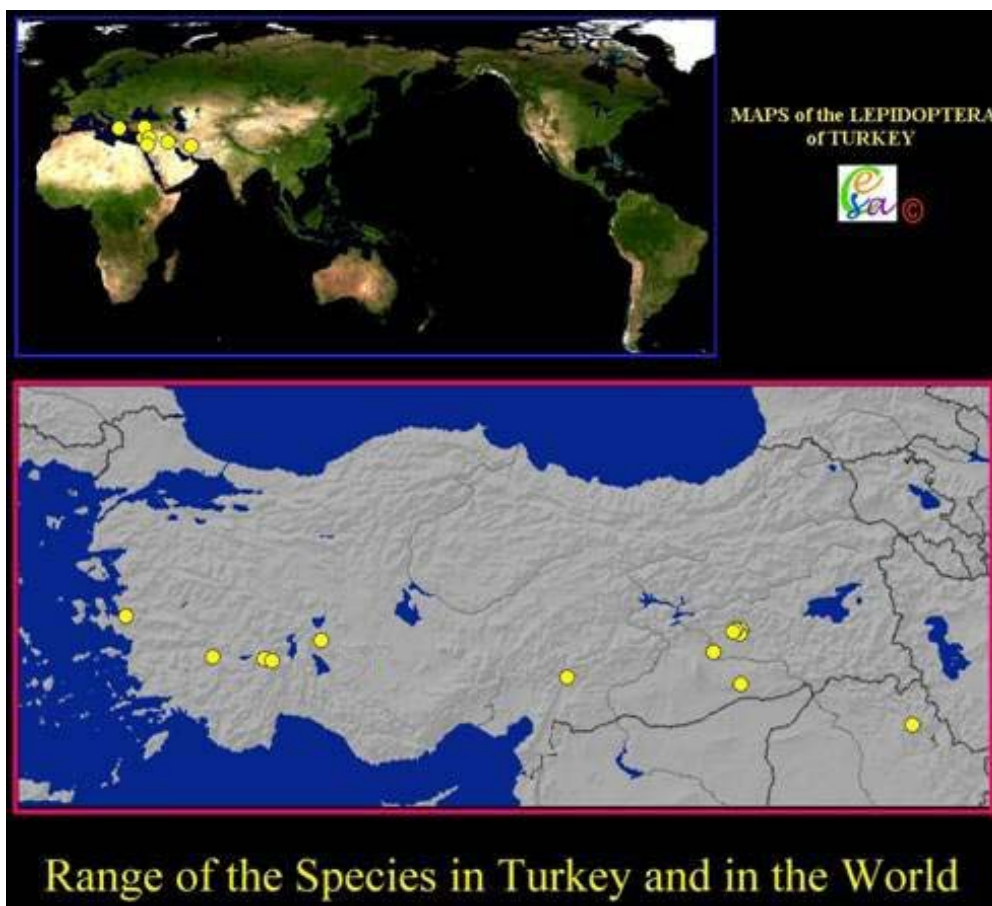
Map 31 - *Lasiommata megera* (Linnaeus,1767) (Satyridae)



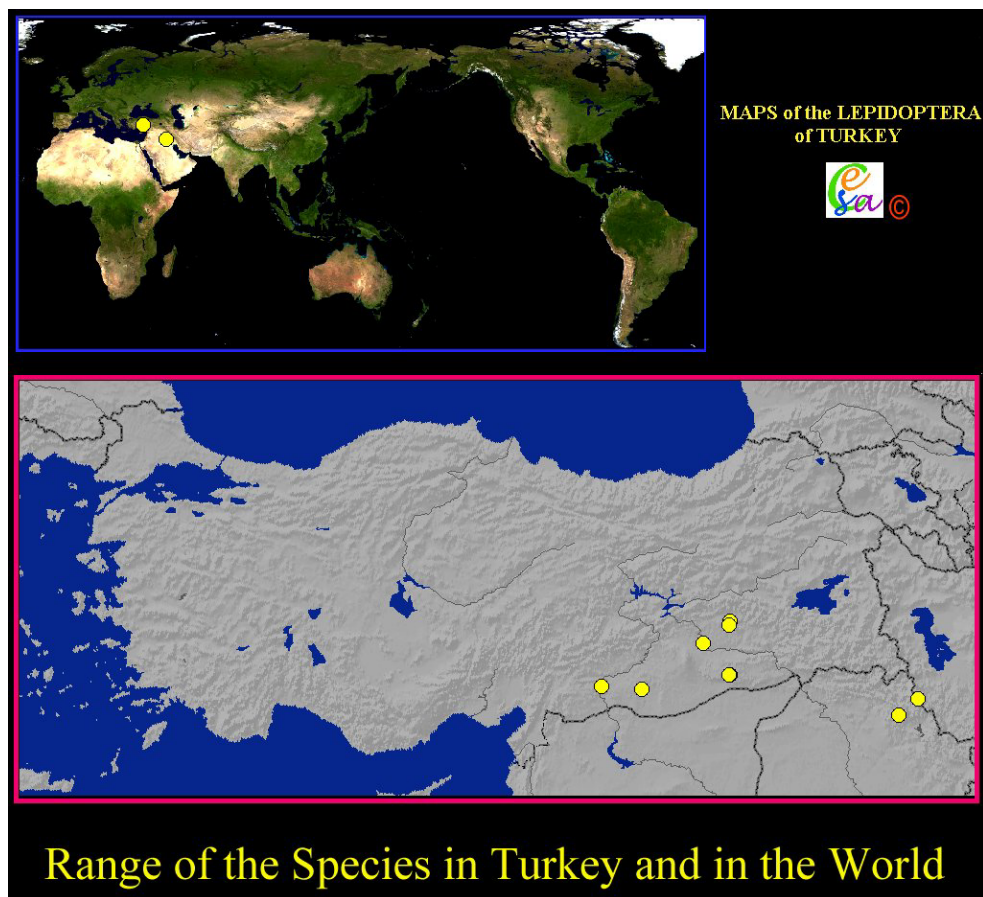
Map 32 - *Melanargia (Turcargia) grumi* Standfuss, 1892 (Satyridae)



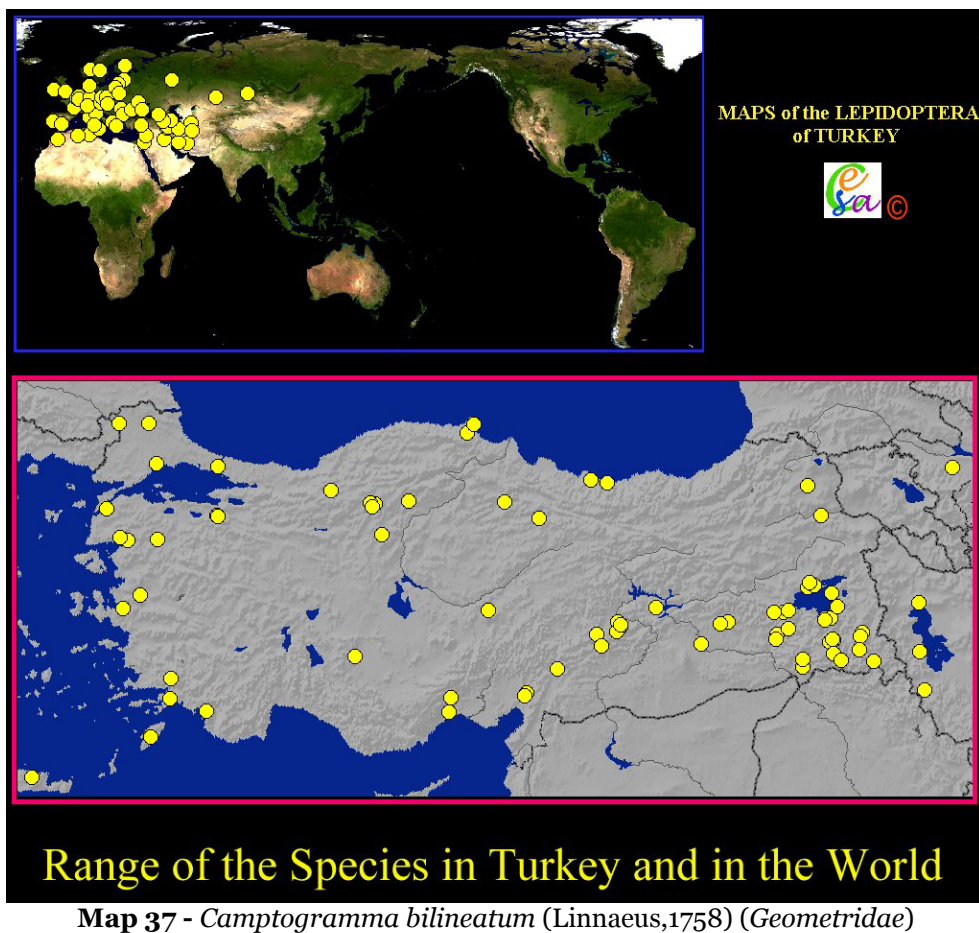
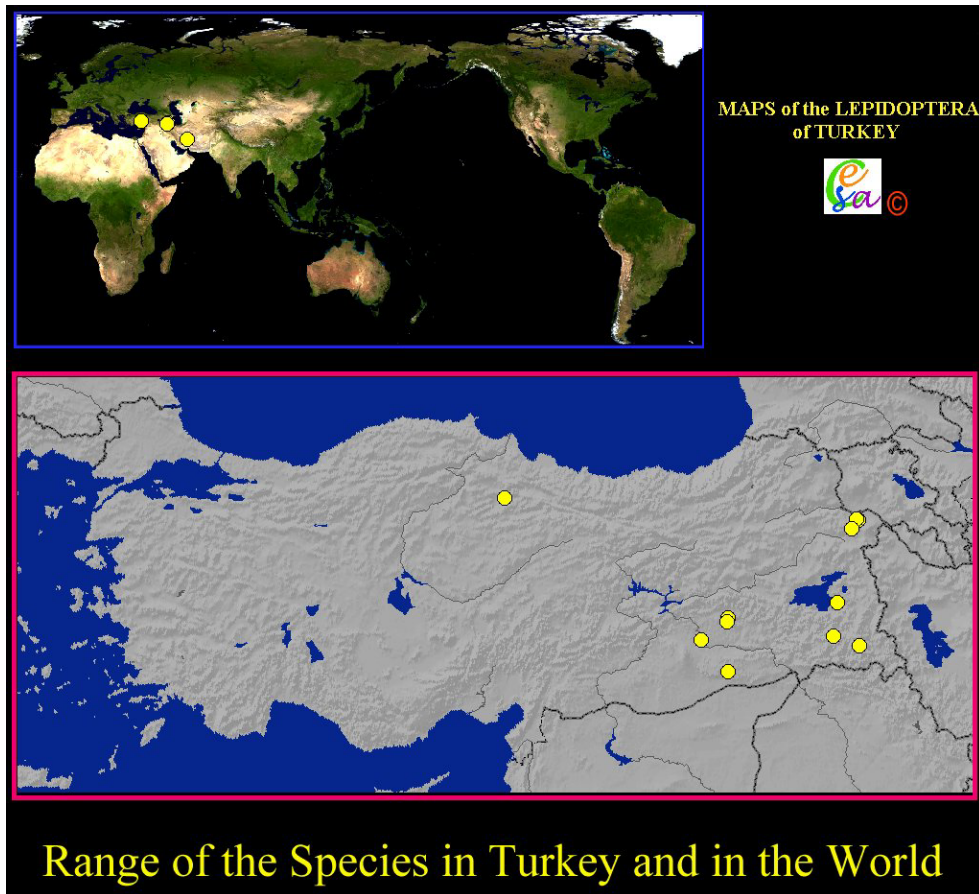
Map 33 - *Amata transcaspica* Obraztsov, 1941 (Ctenuchidae)

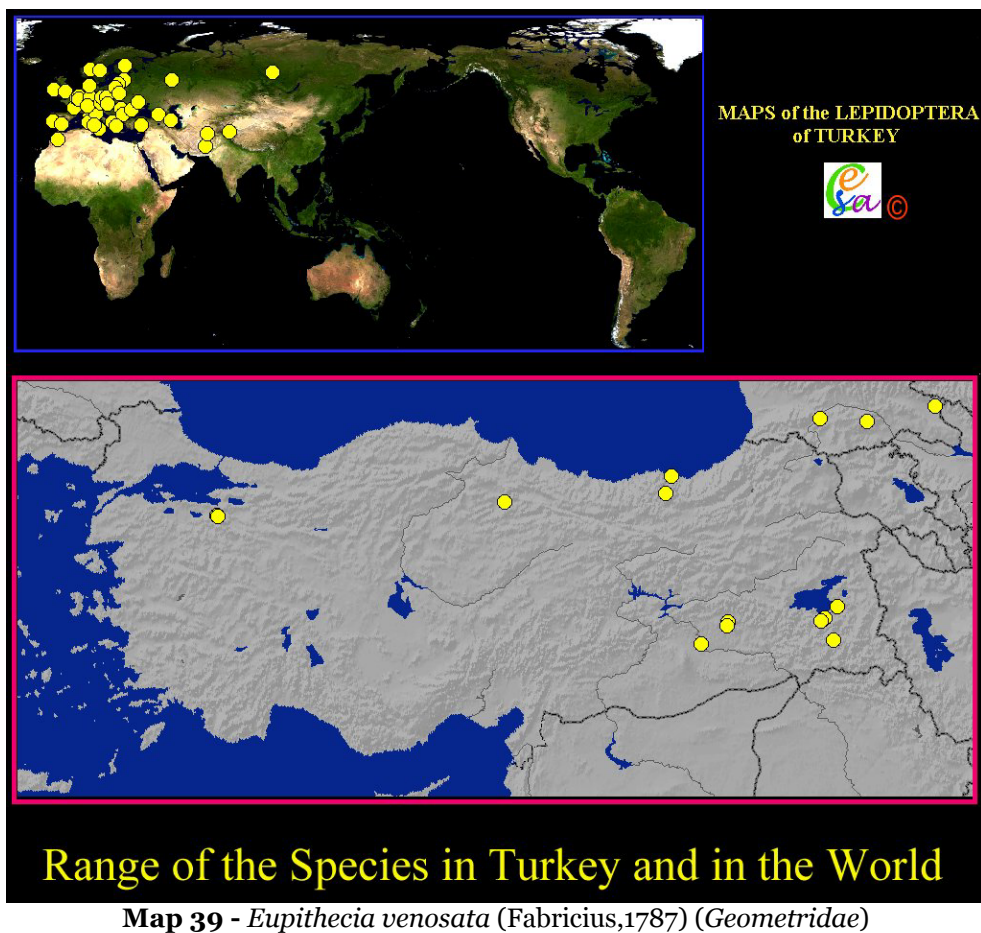
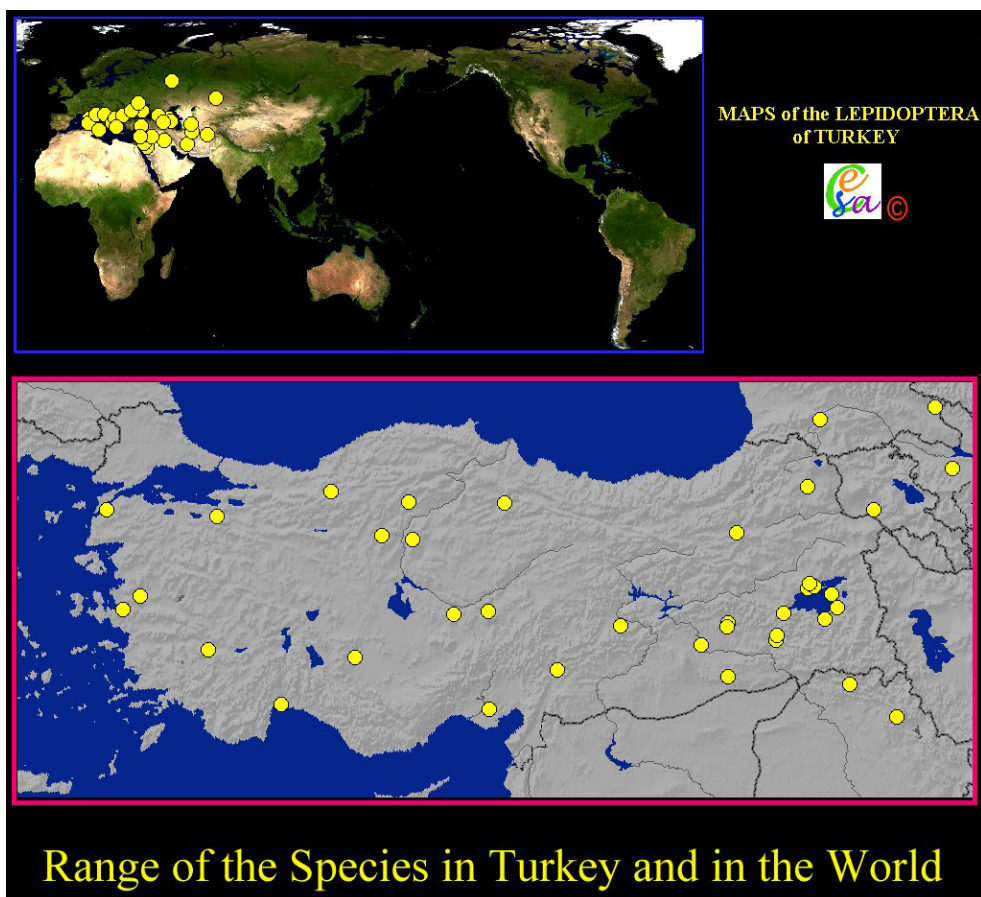


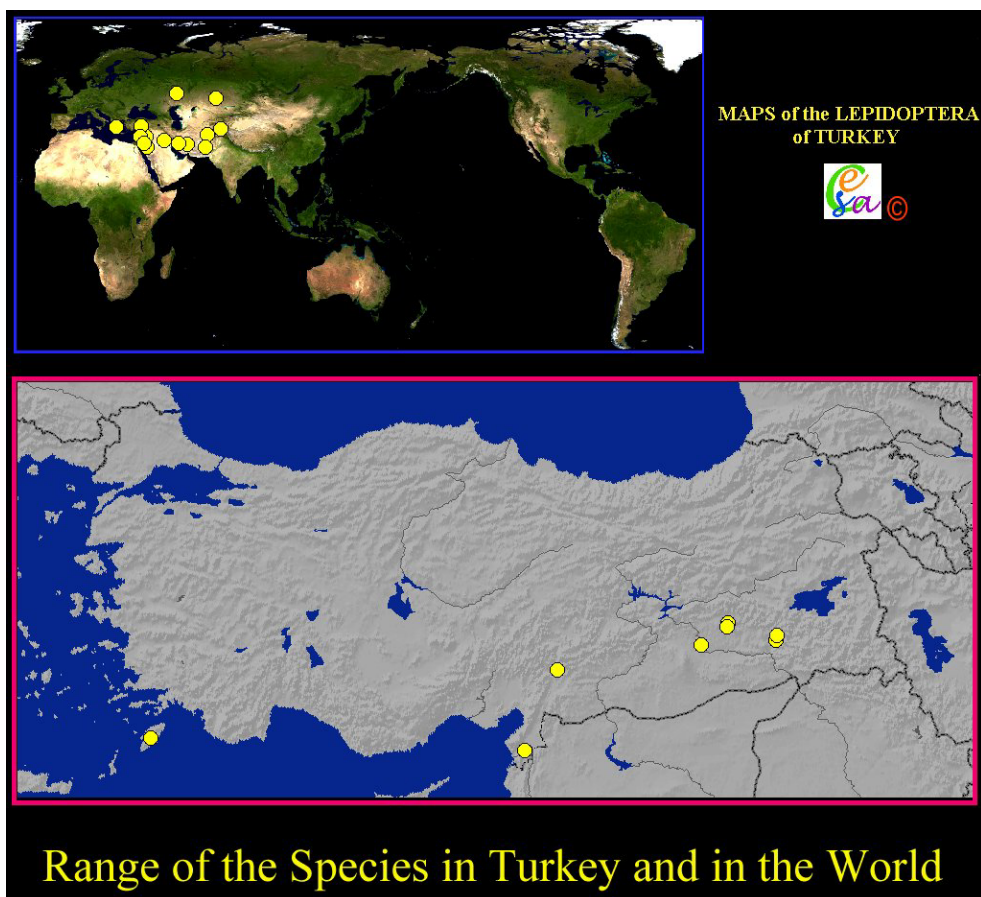
Map 34 - *Syringopais temperatella* (Lederer, 1855) (Deoclonidae)



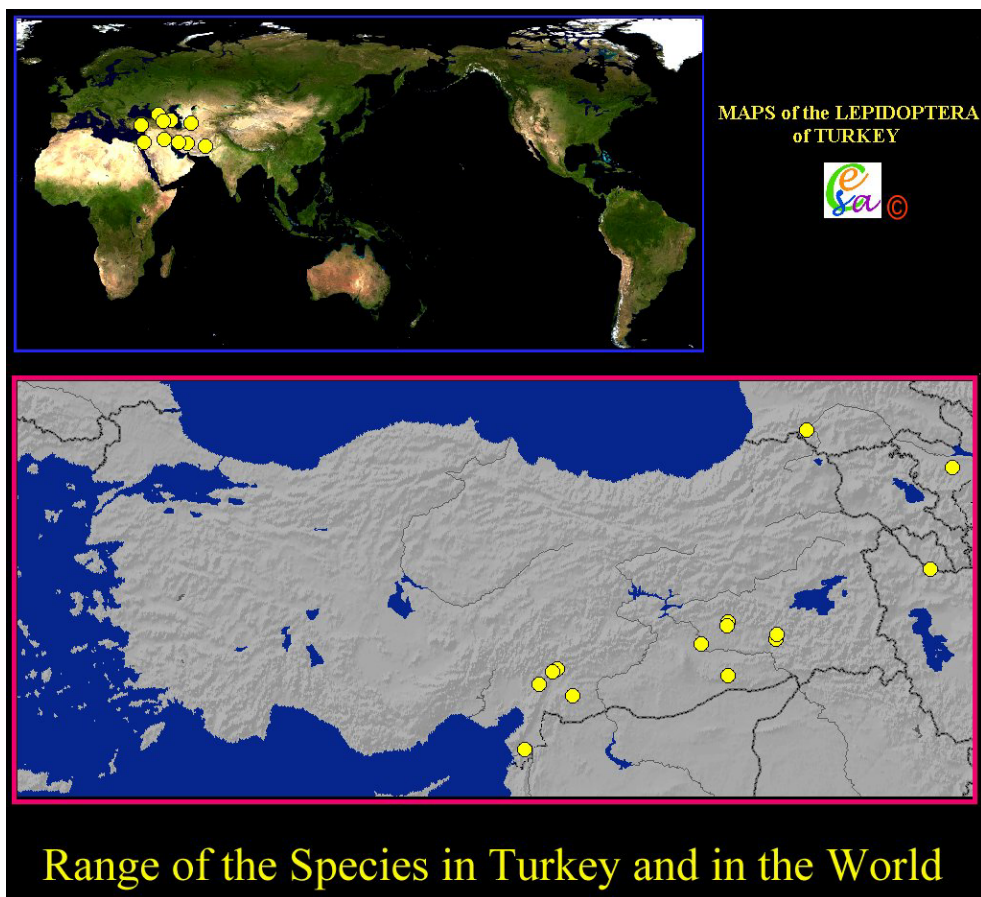
Map 35 - *Ethmia infelix* Meyrick, 1914 (Ethmiidae)



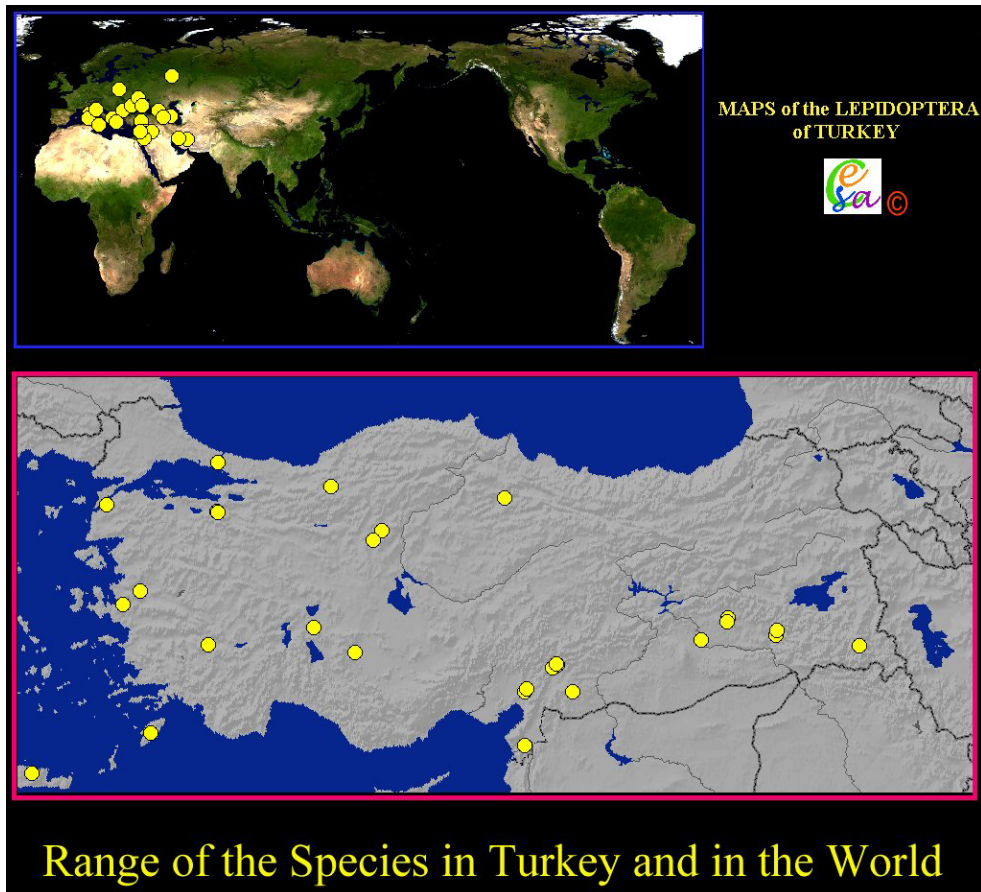




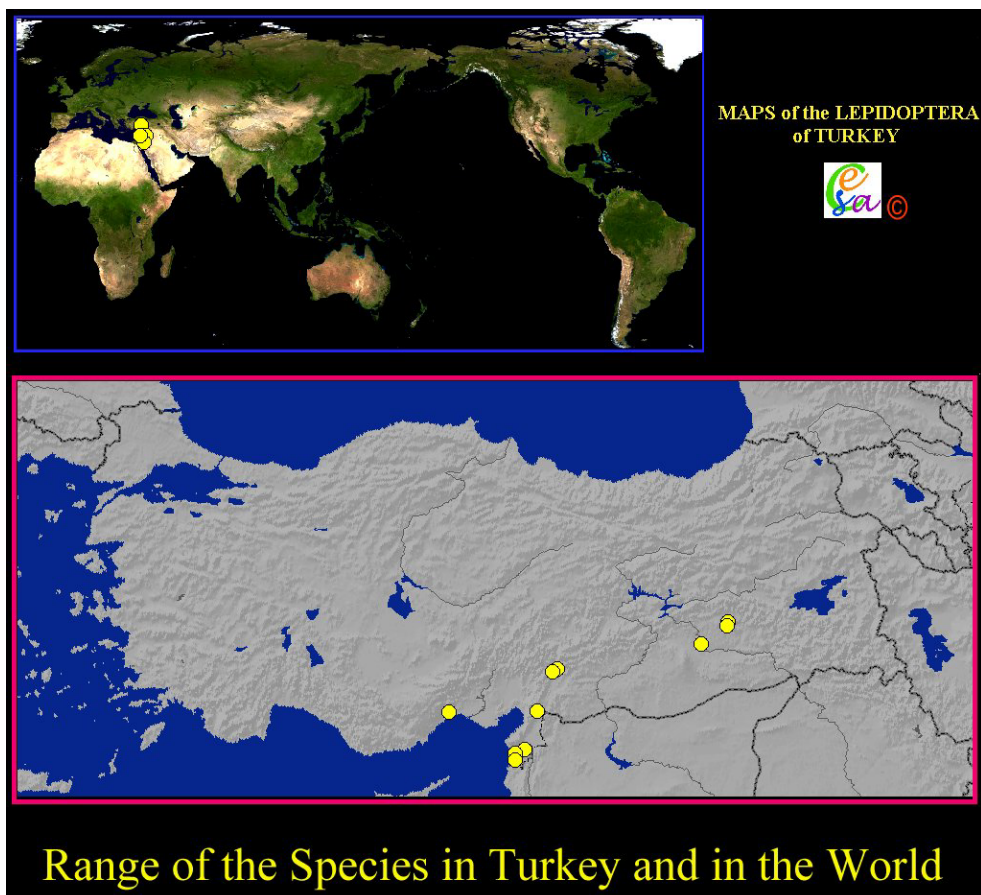
Map 40 - *Glossotrophia (Libanonia) sacraria* (A.Bang-Haas,1910) (Geometridae)



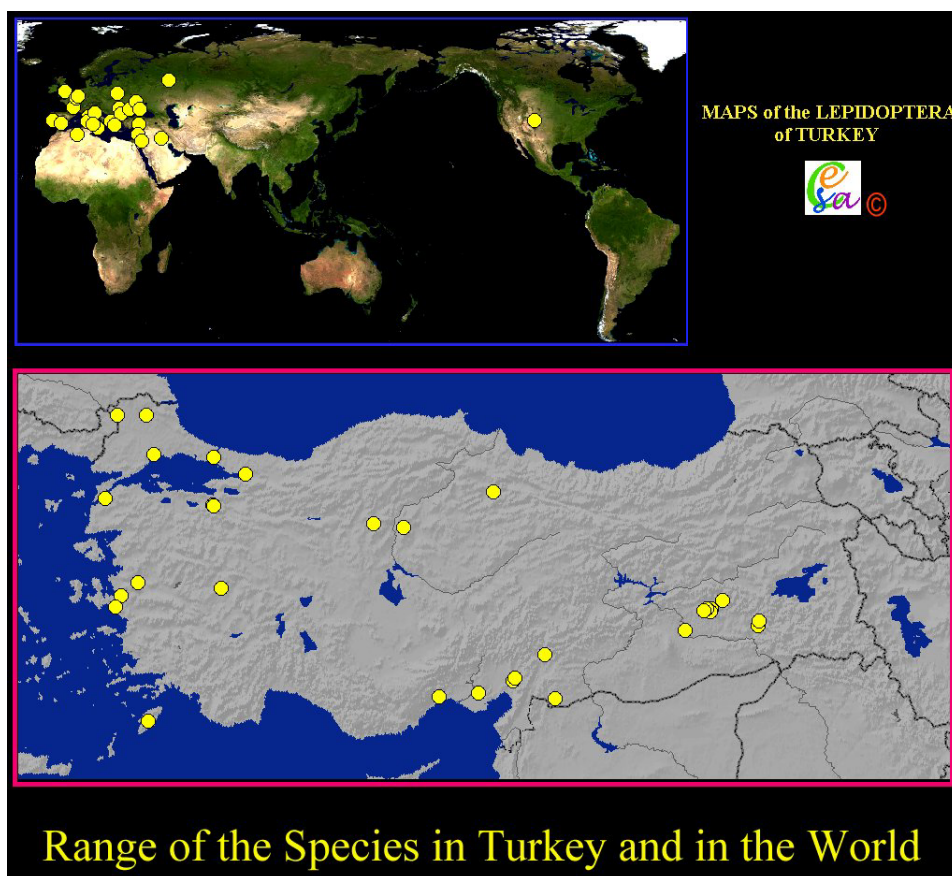
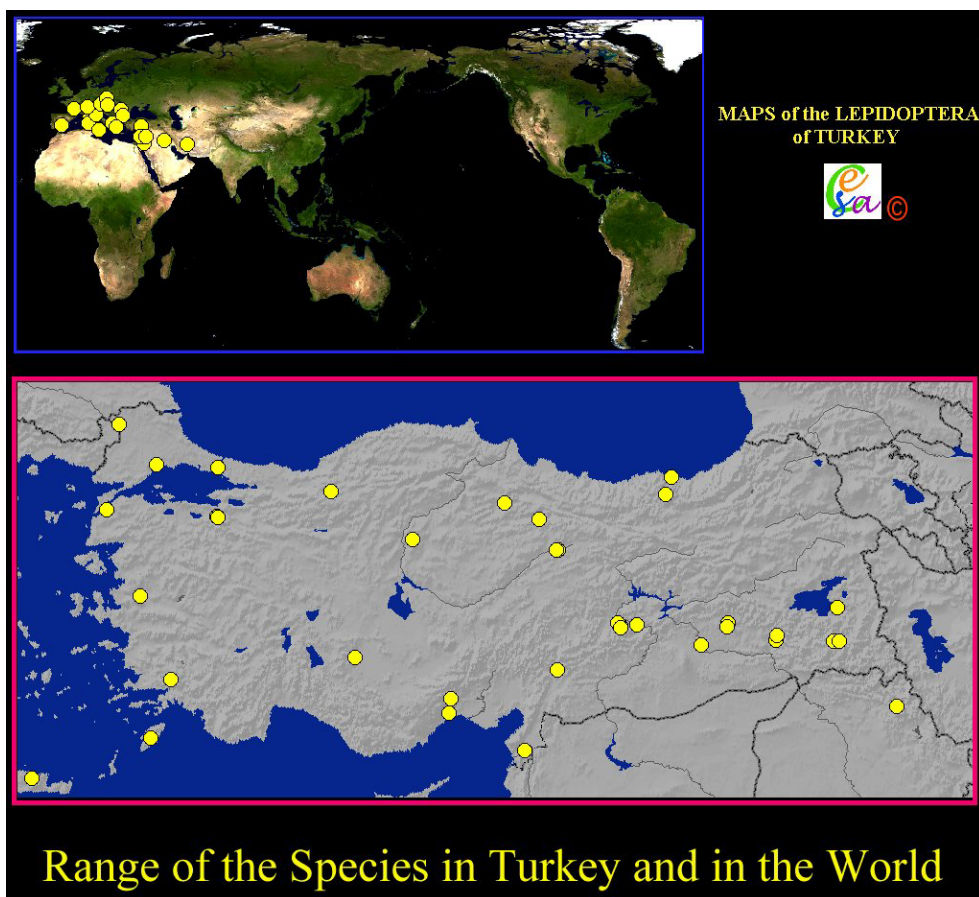
Map 41 - *Gnopharmia colchidaria* (Lederer,1870) (Geometridae)

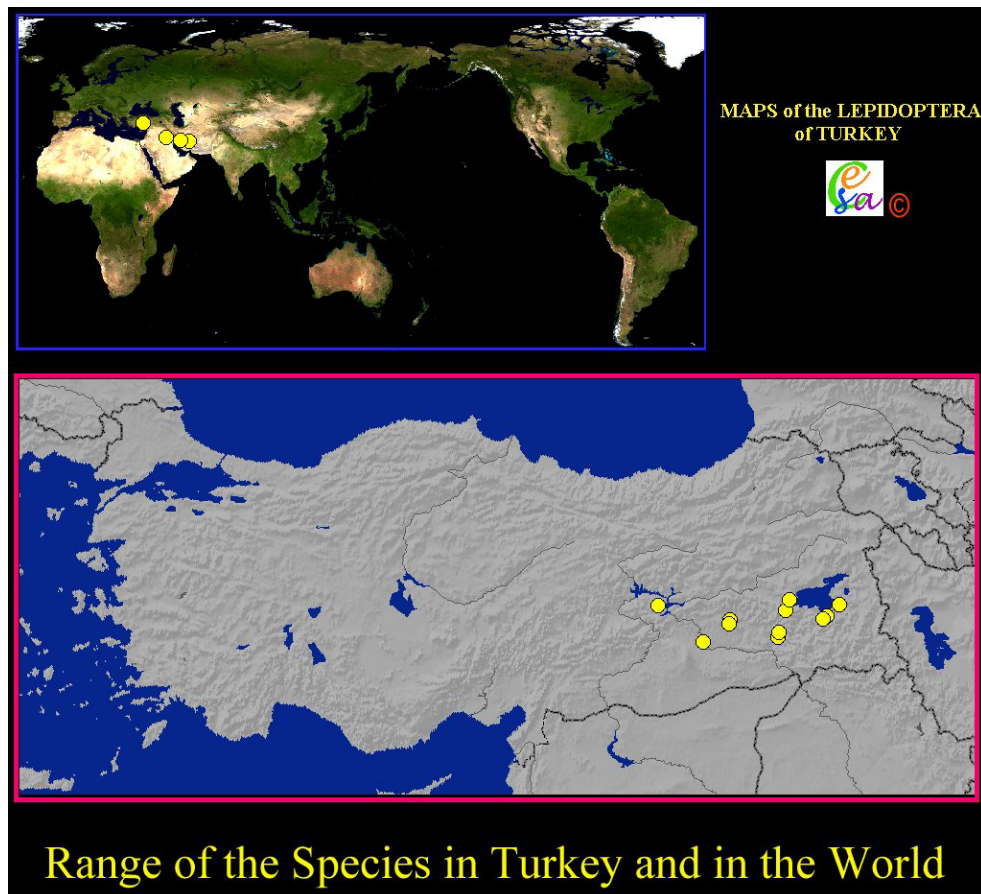


Map 42 - *Gnophos (Dicrognophos) sartatus* (Treitschke, 1827) (Geometridae)

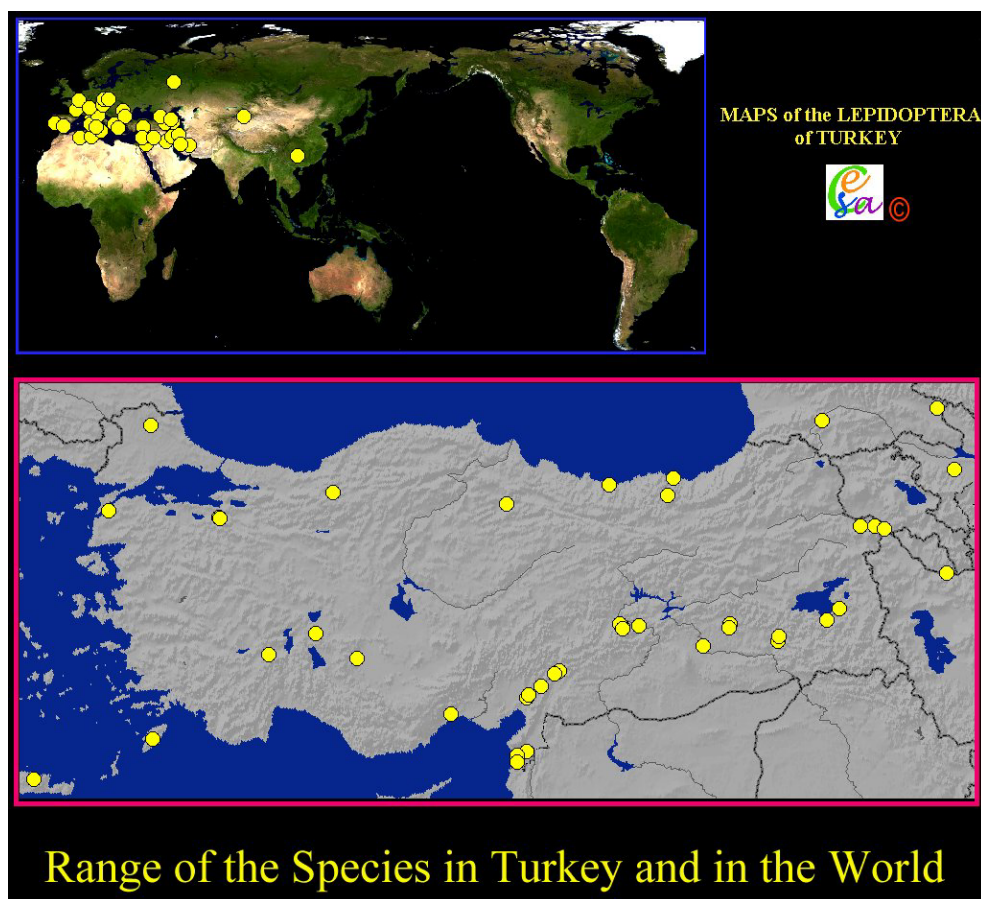


Map 43 - *Hyposcotis (Euchrognophos) subtaurica* (Wehrli, 1934) (Geometridae)

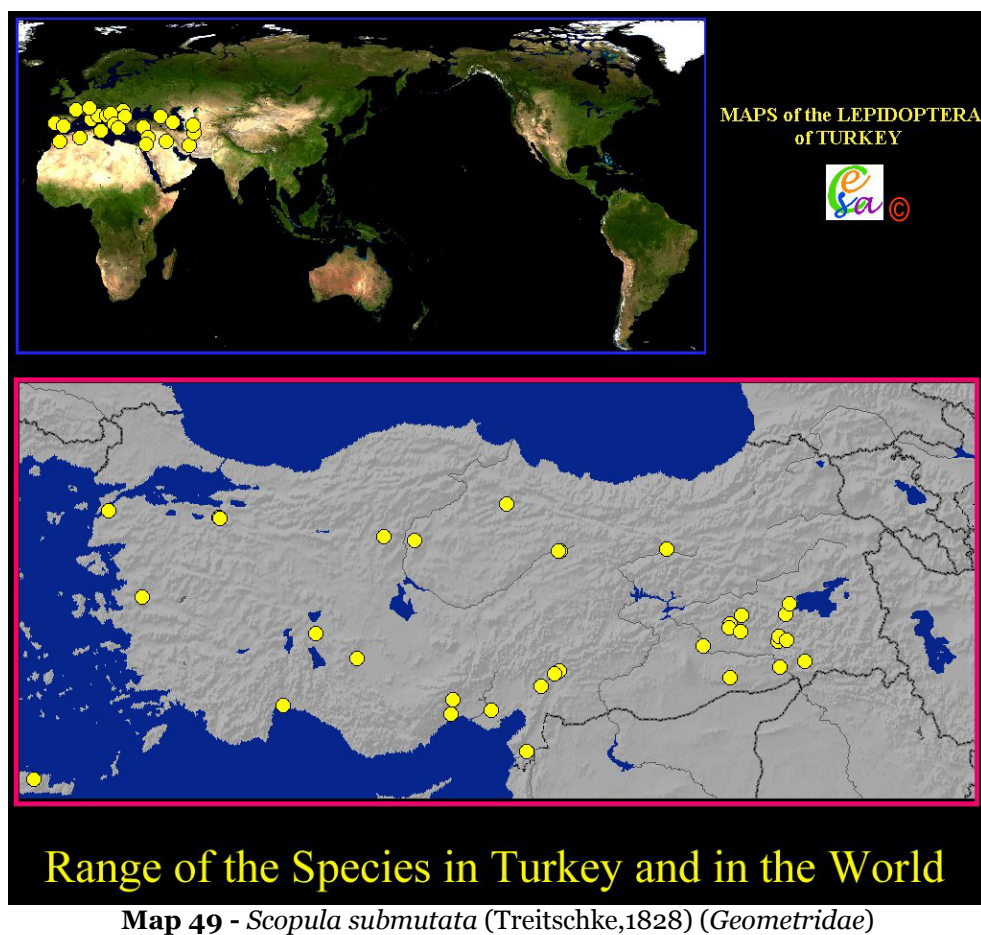
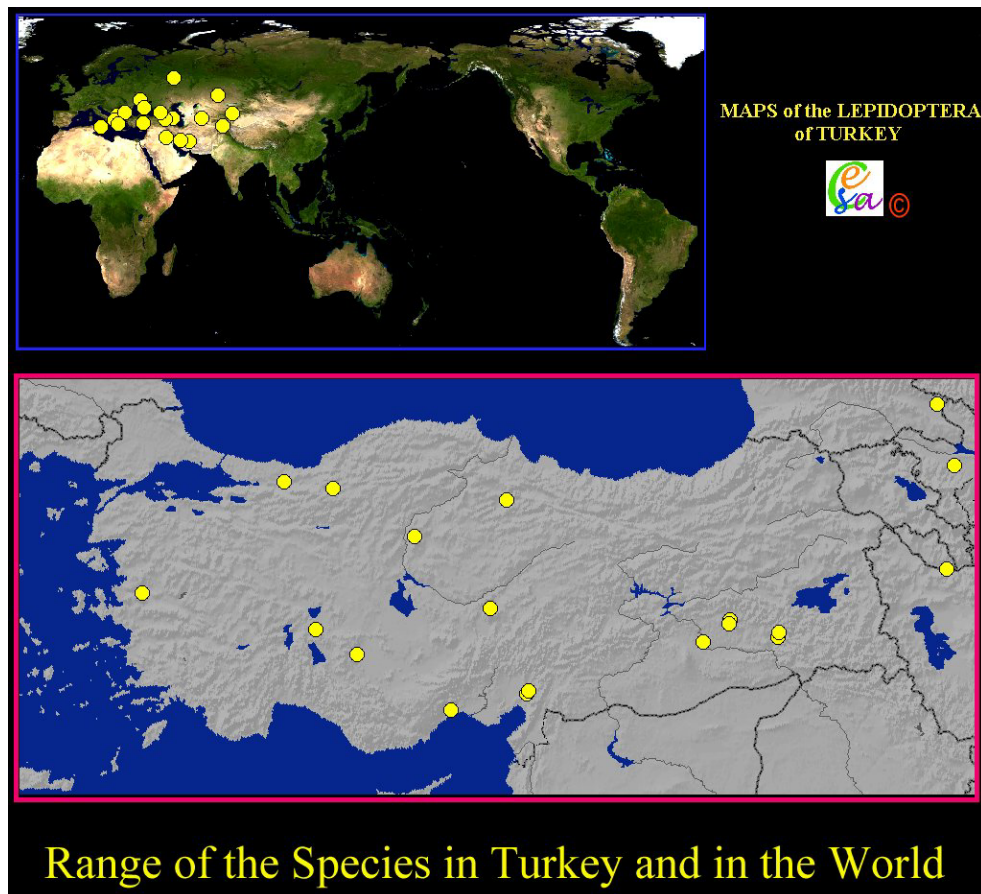


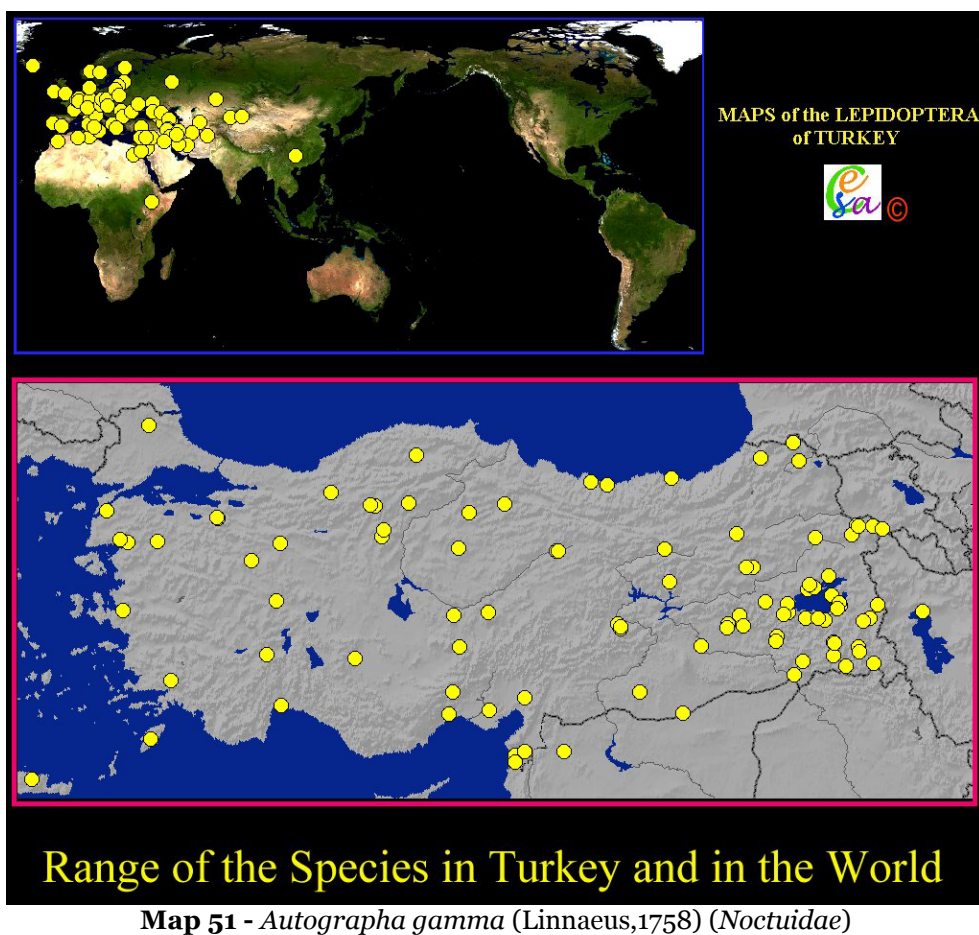
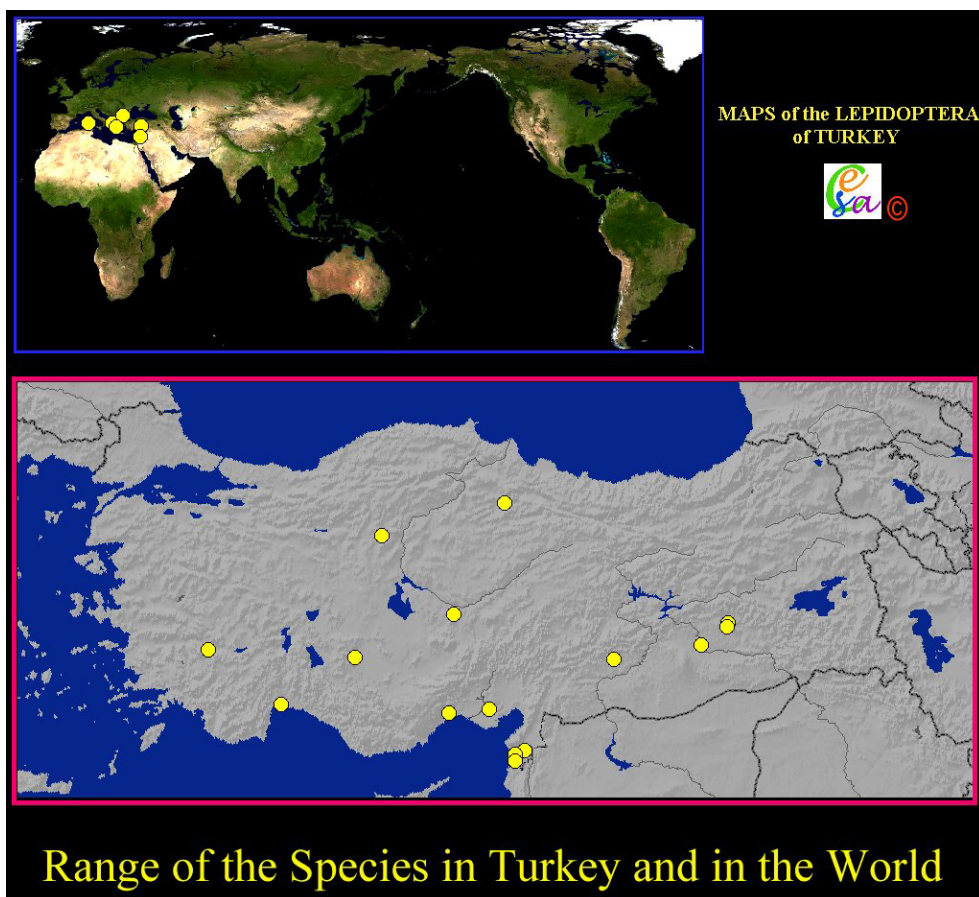


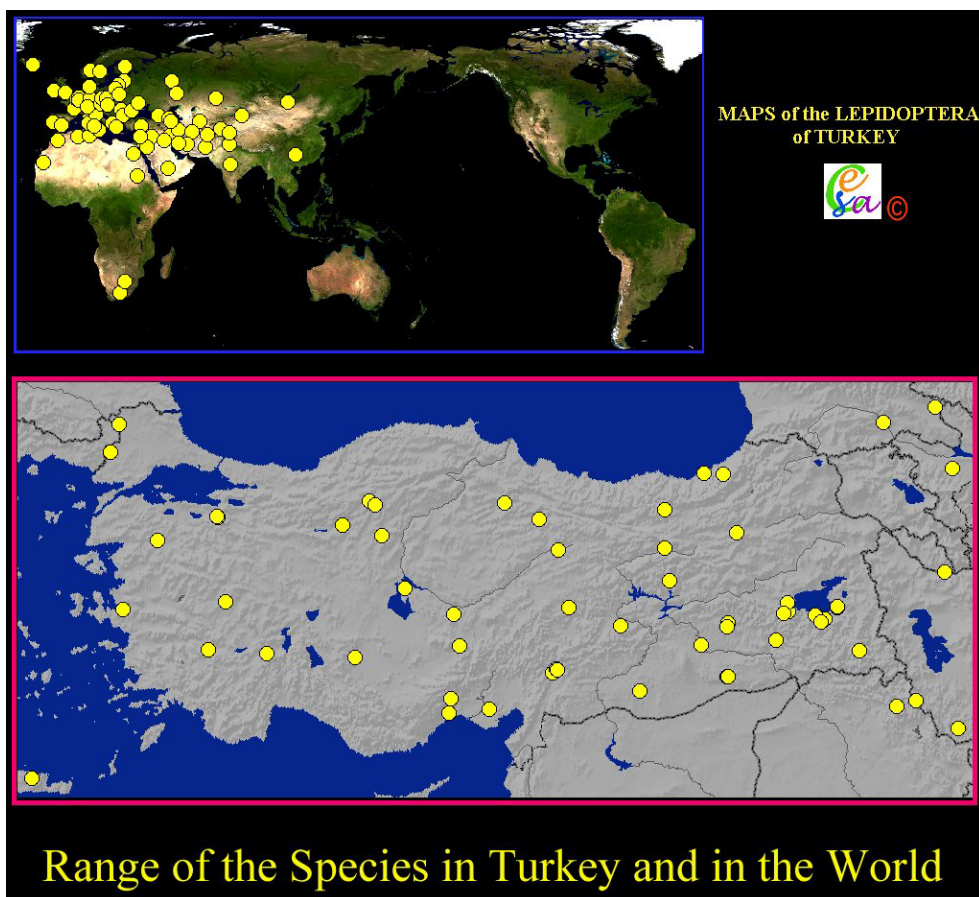
Map 46 - *Nychiodes (Eunychiodes) variabila* Brandt, 1938 (Geometridae)



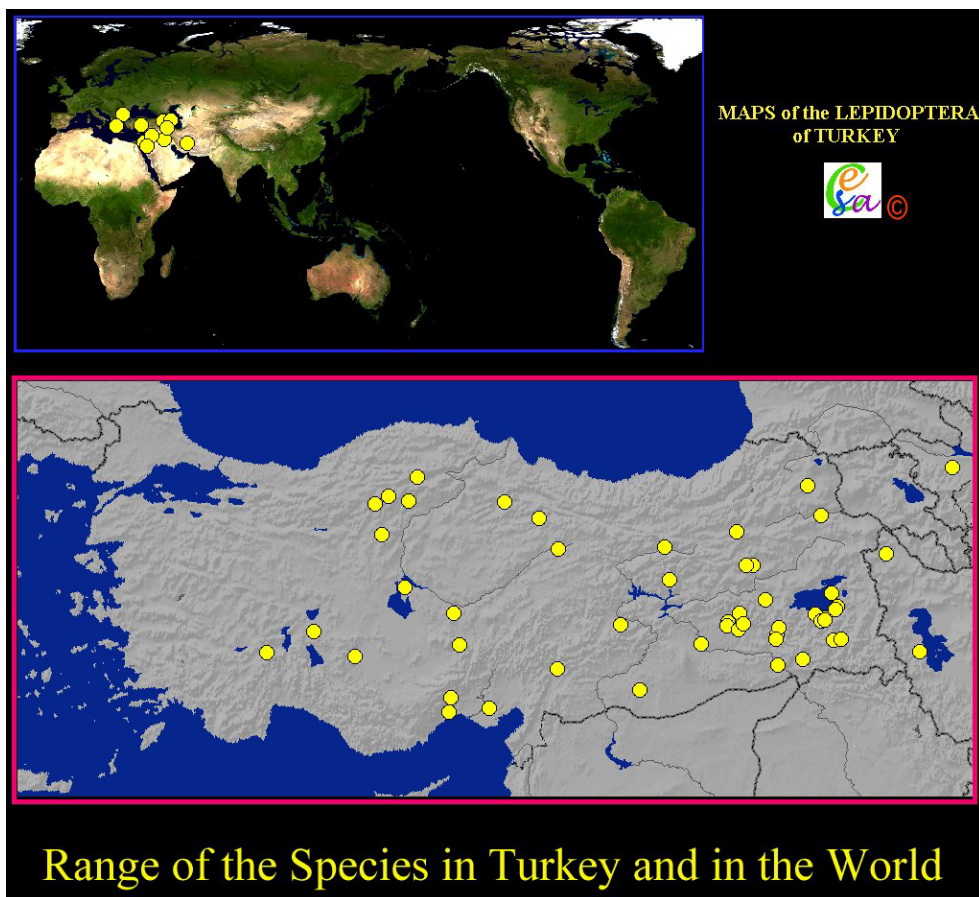
Map 47 - *Phaiogramma etruscaria* (Zeller, 1849) (Geometridae)



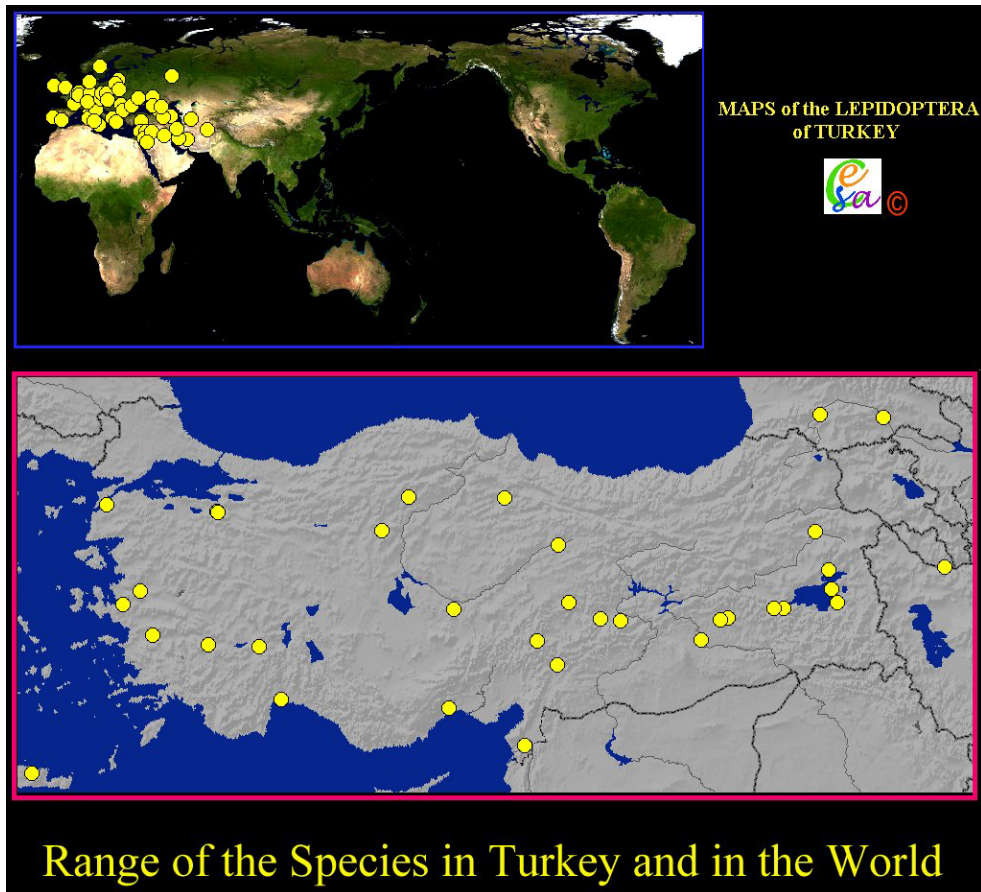




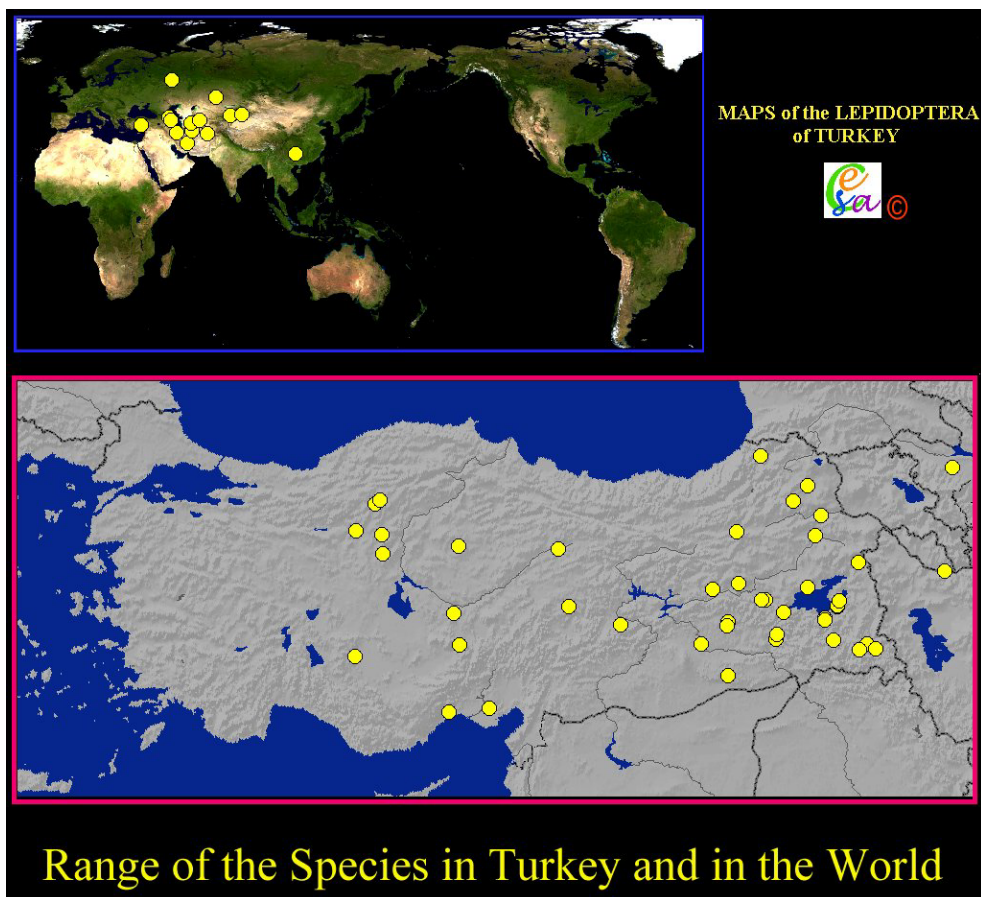
Map 52 - *Caradrina (Paradrina) clavipalpis* (Scopoli, 1763) (Noctuidae)



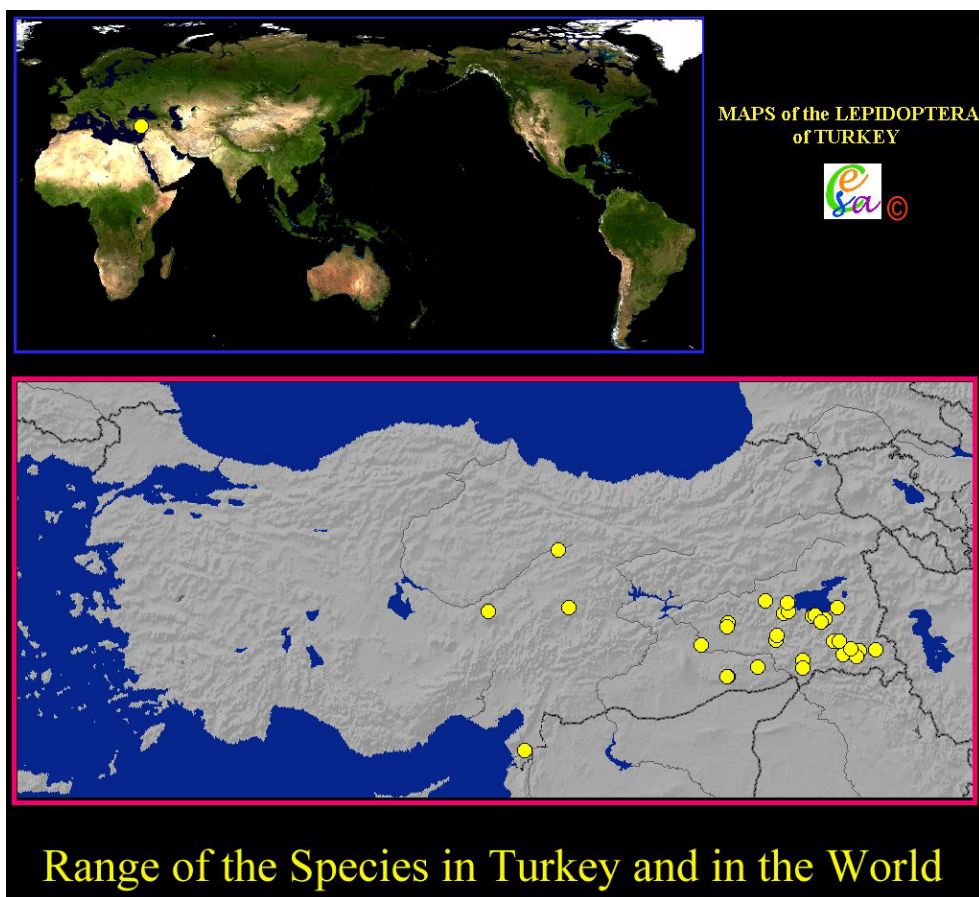
Map 53 - *Cleonymia (Serryvania) opposita* (Lederer, 1870) (Noctuidae)



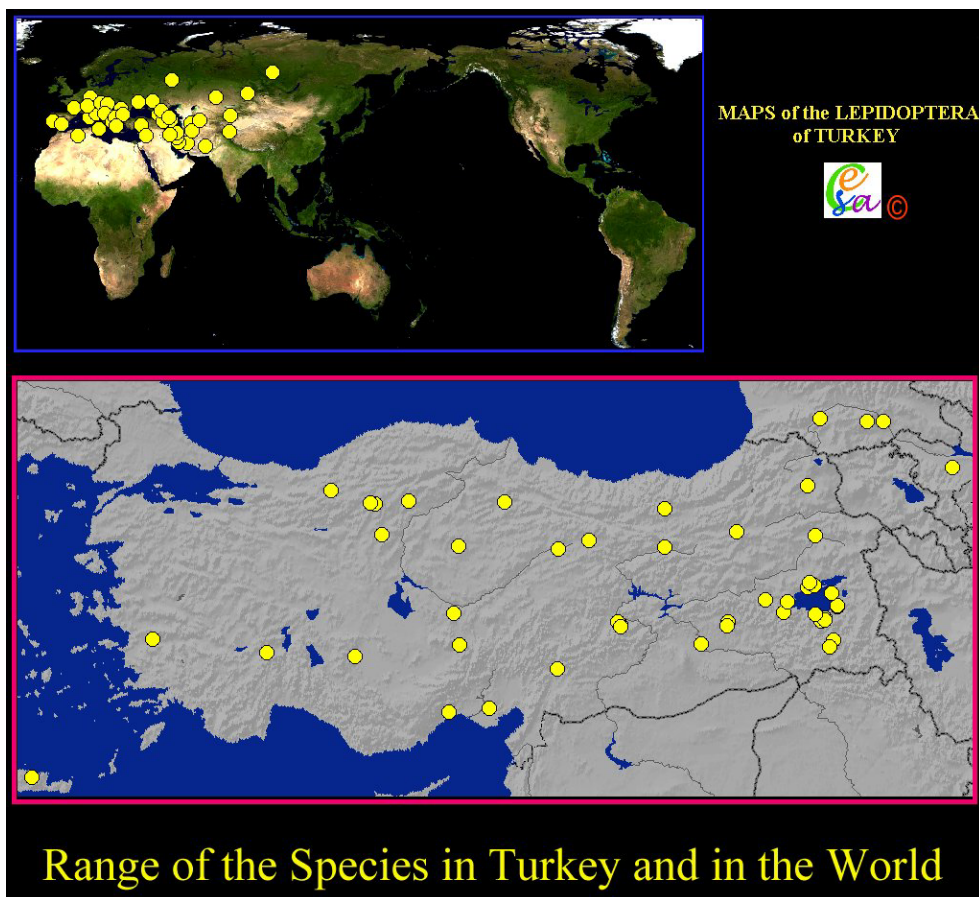
Map 54 - *Cucullia (Shargacucullia) verbasci* (Linnaeus,1758) (Noctuidae)



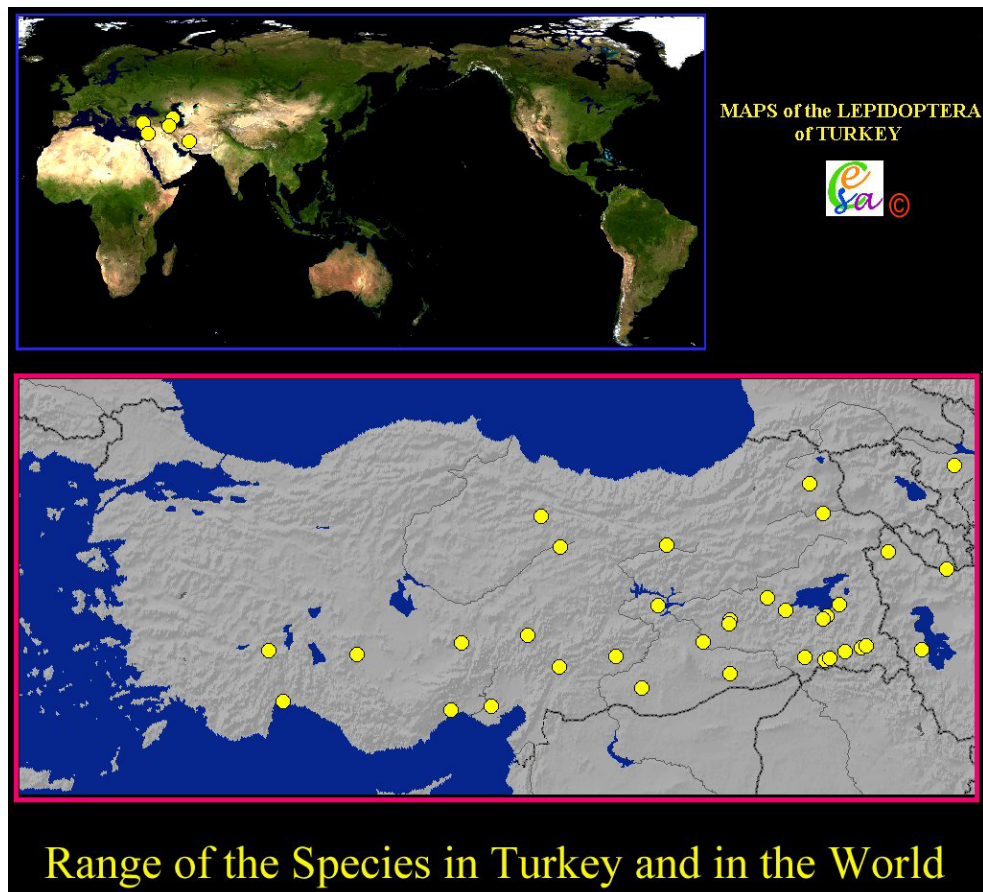
Map 55 - *Drasteria saisani* (Staudinger,1882) (Noctuidae)



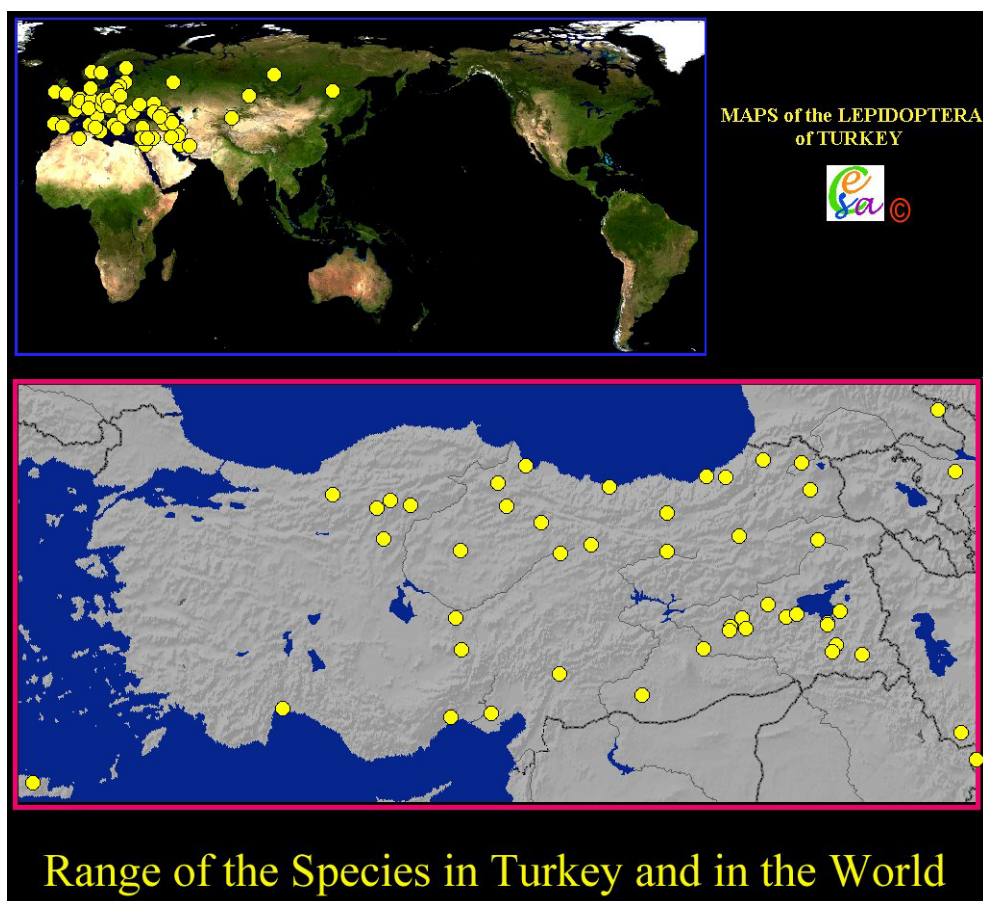
Map 56 - *Euchalcia dorsiflava* (Standfuss, 1892) (Noctuidae)



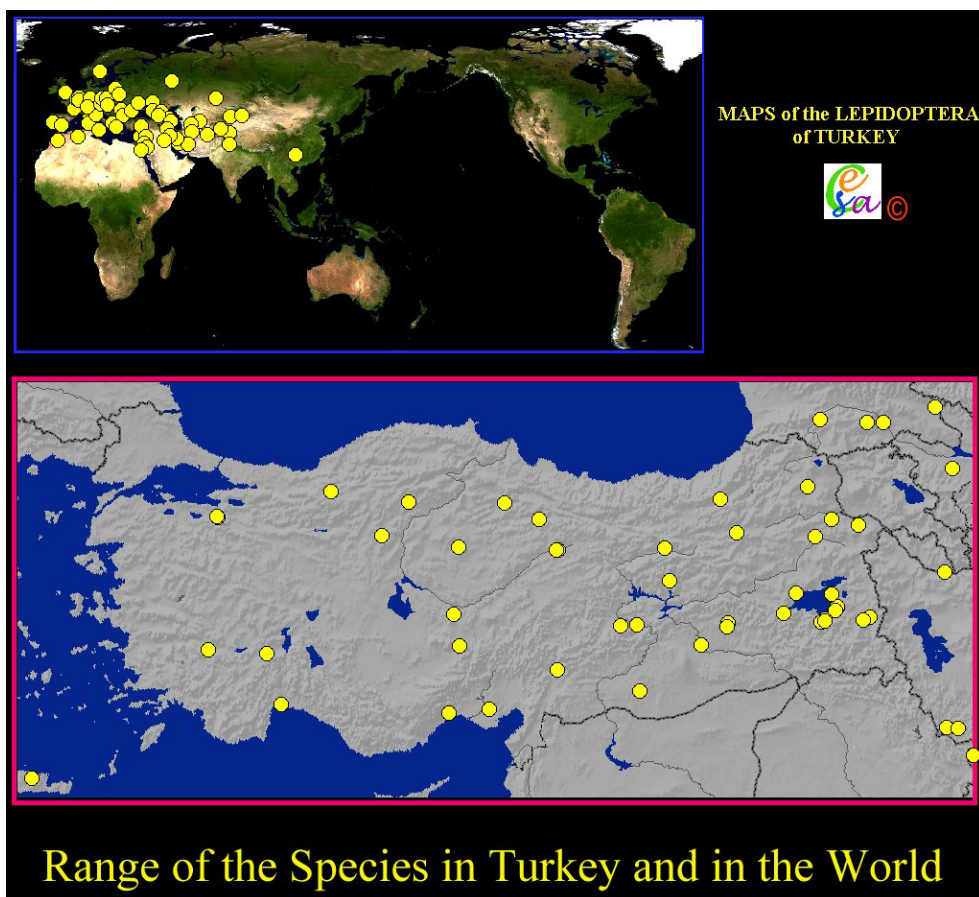
Map 57 - *Hadena* (s.str. (*Magnolihadena*)) *magnolii* (Boisduval, 1828) (Noctuidae)



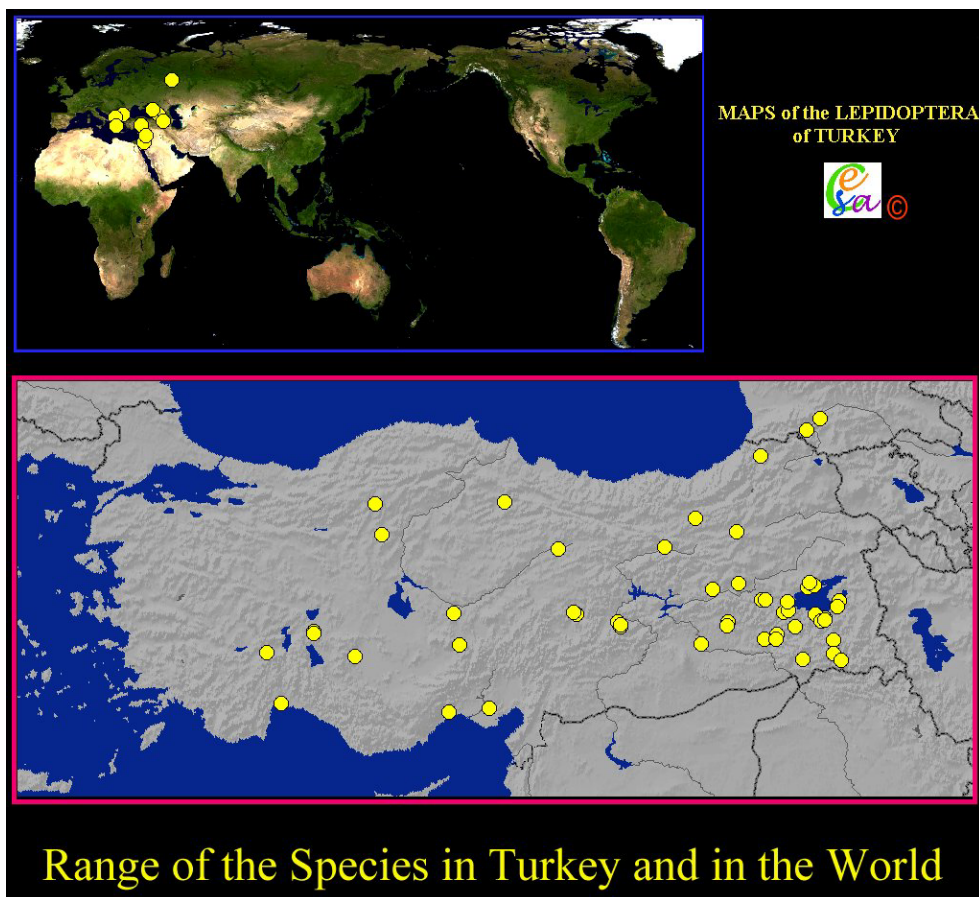
Map 58 - *Hadula (Caloestra (Hadumendax)) mendica* (Staudinger,[1895]) (Noctuidae)



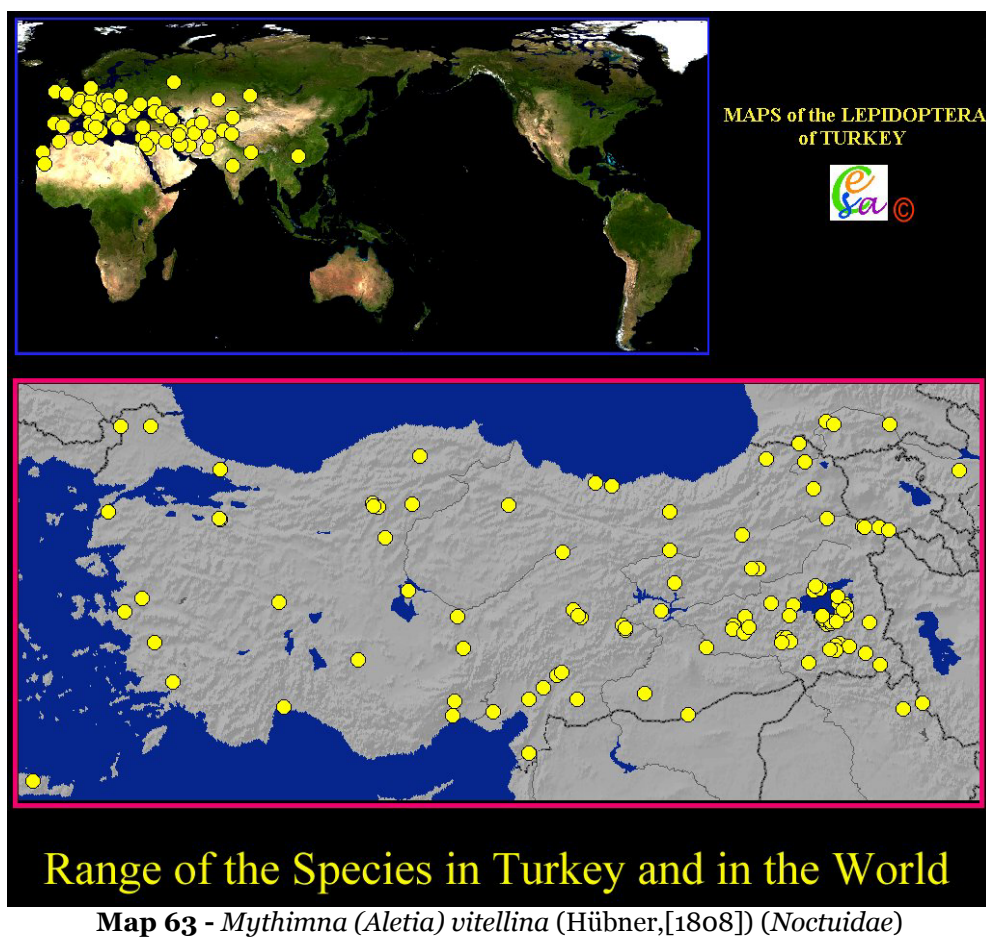
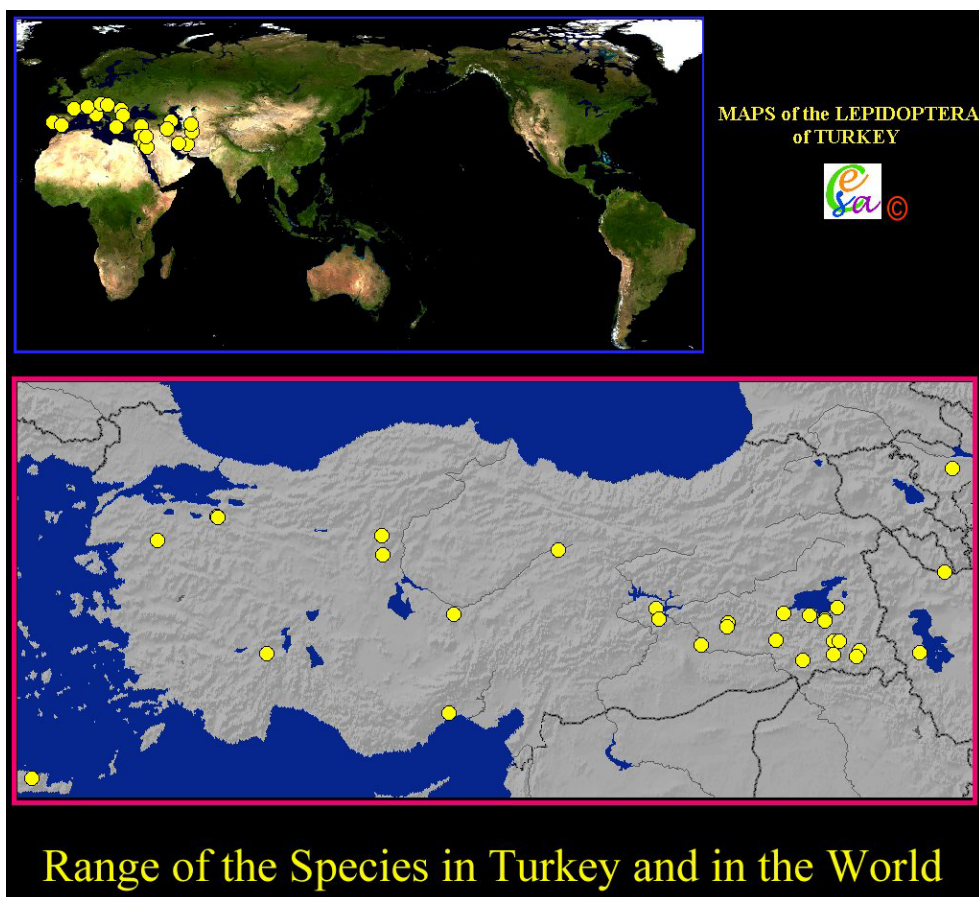
Map 59 - *Hecatera bicolorata* (Hufnagel,1766) (Noctuidae)

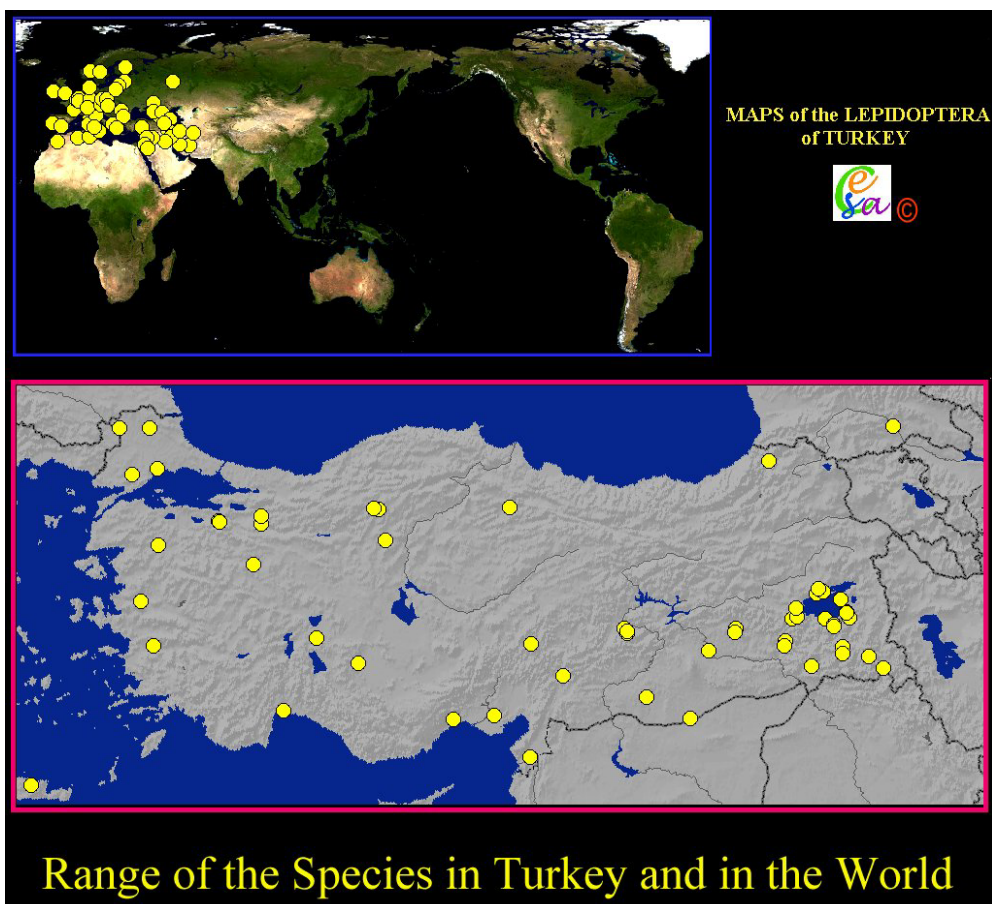


Map 60 - *Hecatera spinaciae* (Vieweg,1790) (Noctuidae)

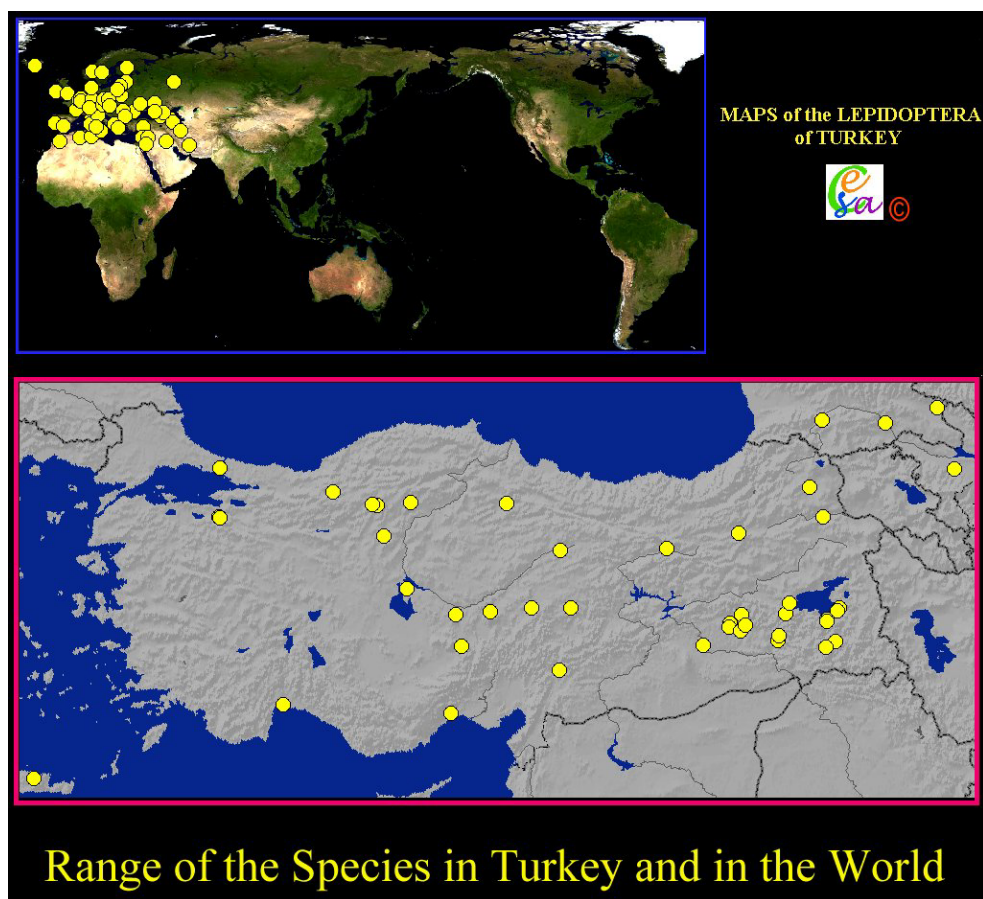


Map 61 - *Hypena munitalis* Mann,1861 (Noctuidae)

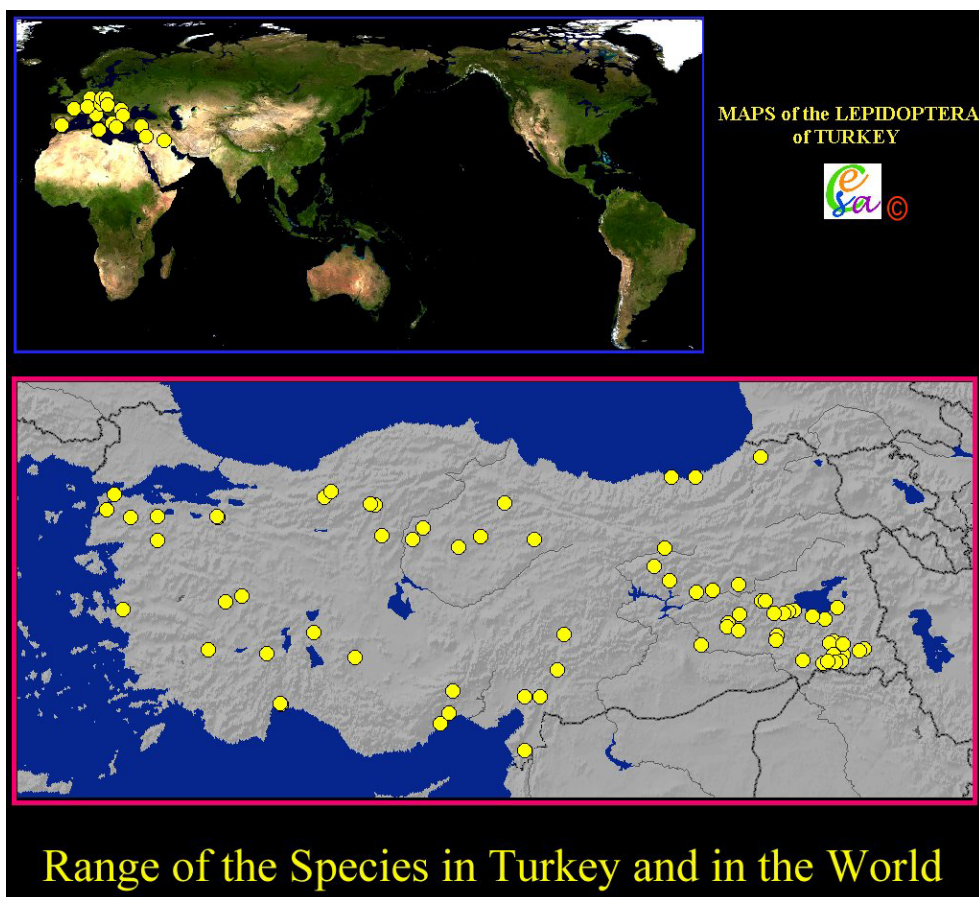




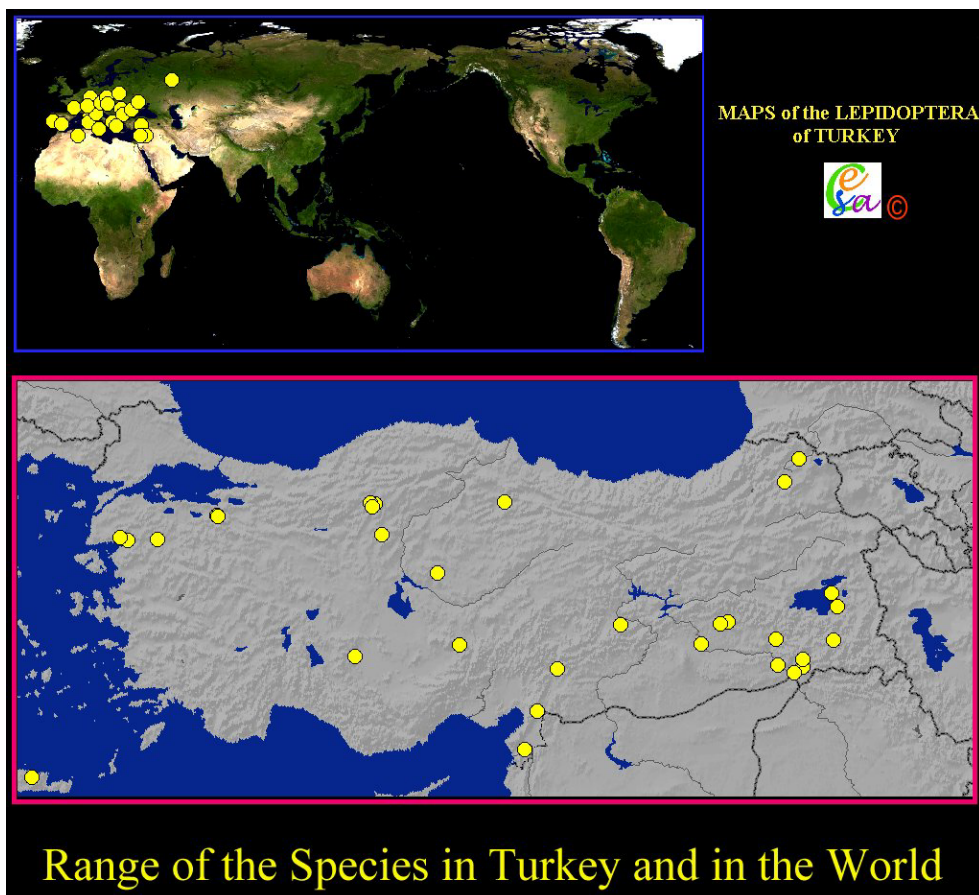
Map 64 - *Noctua (Paranoctua) comes* (Hübner,[1813]) (Noctuidae)



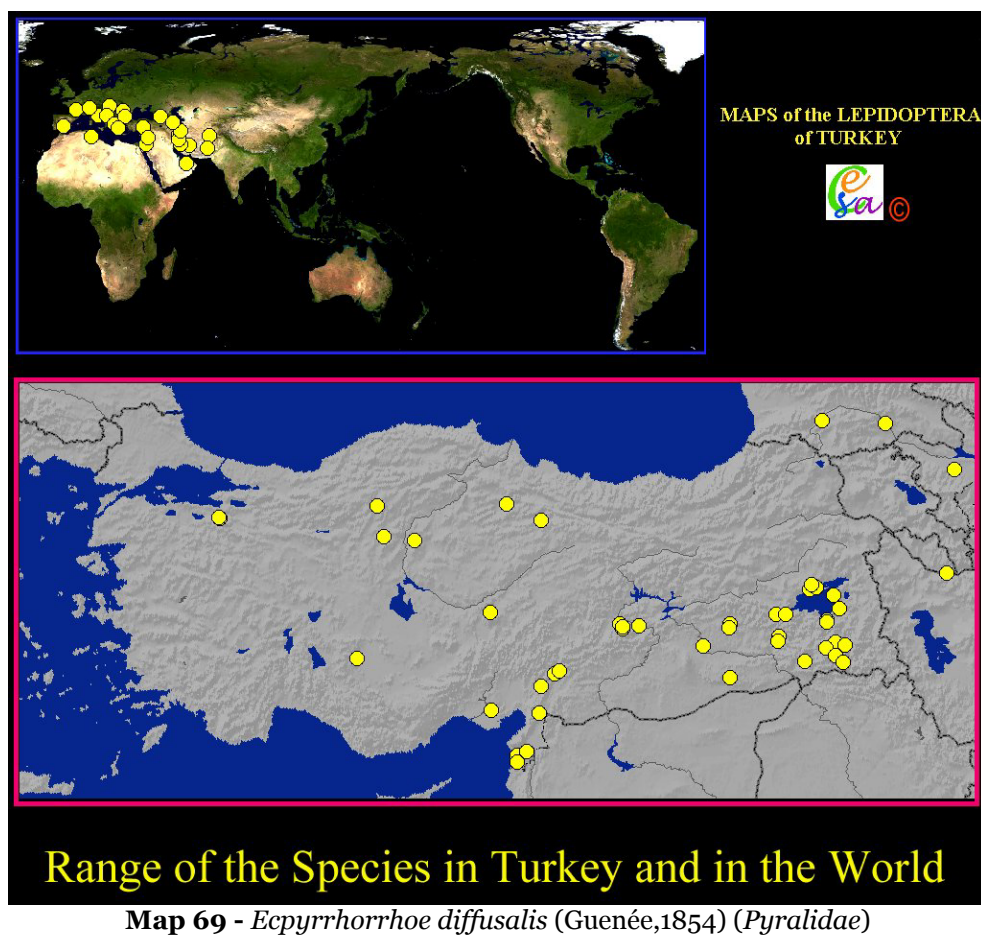
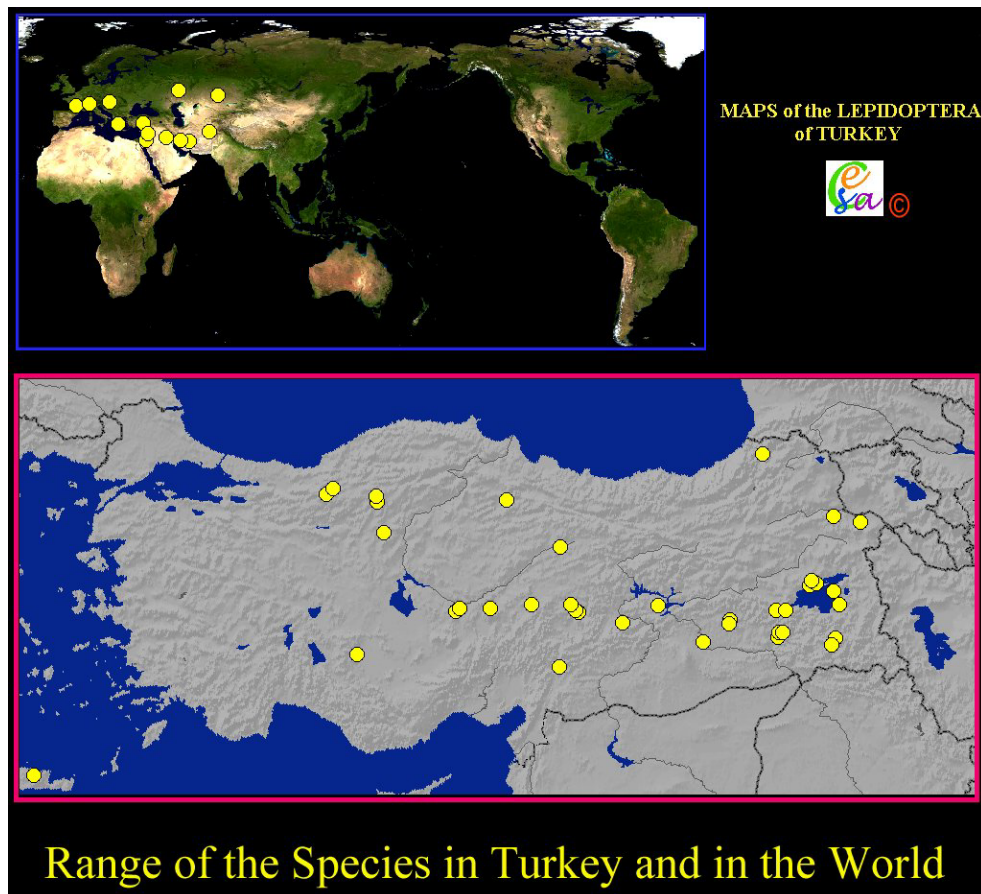
Map 65 - *Phlogophora meticulosa* (Linnaeus,1758) (Noctuidae)

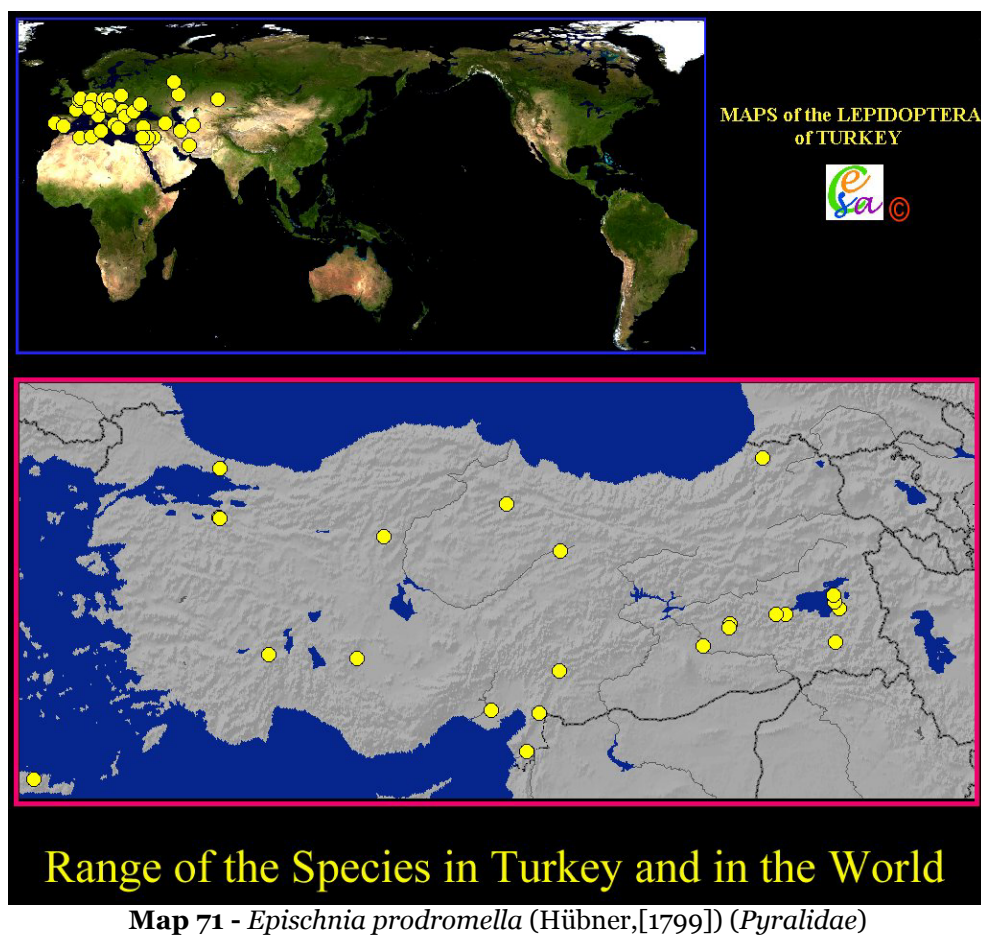
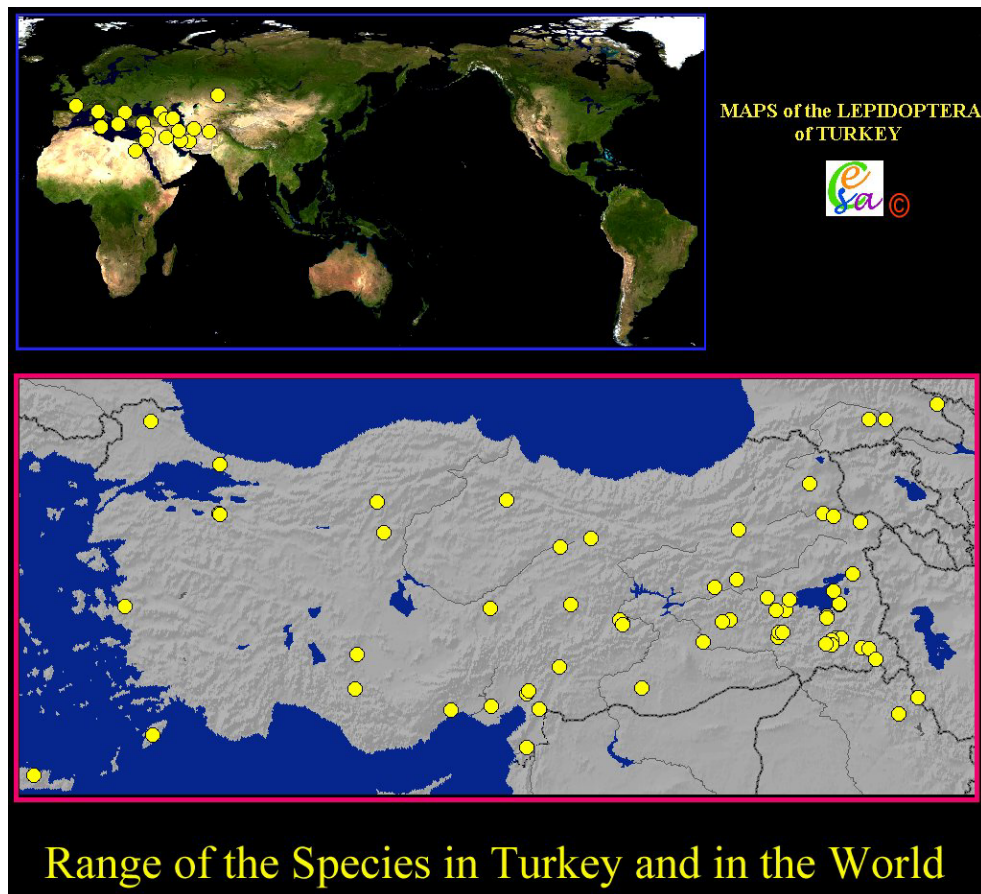


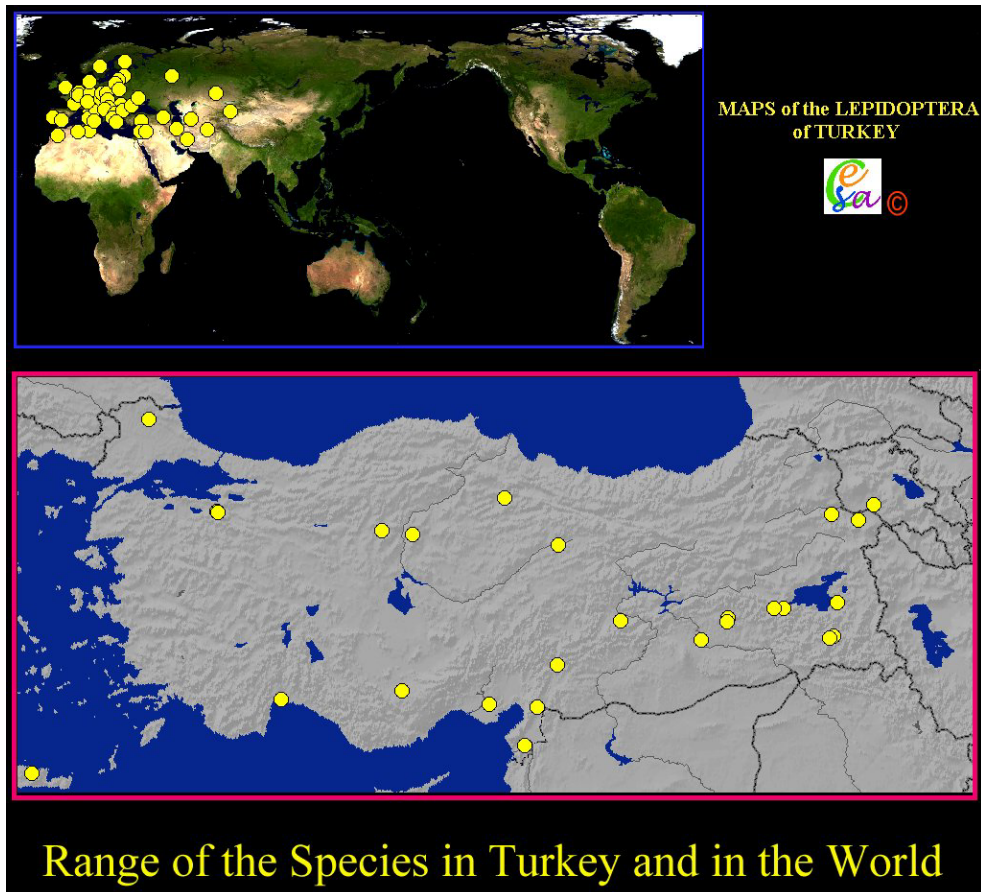
Map 66 - *Spatalia argentina* ([Denis & Schiffermüller],1775) (Notodontidae)



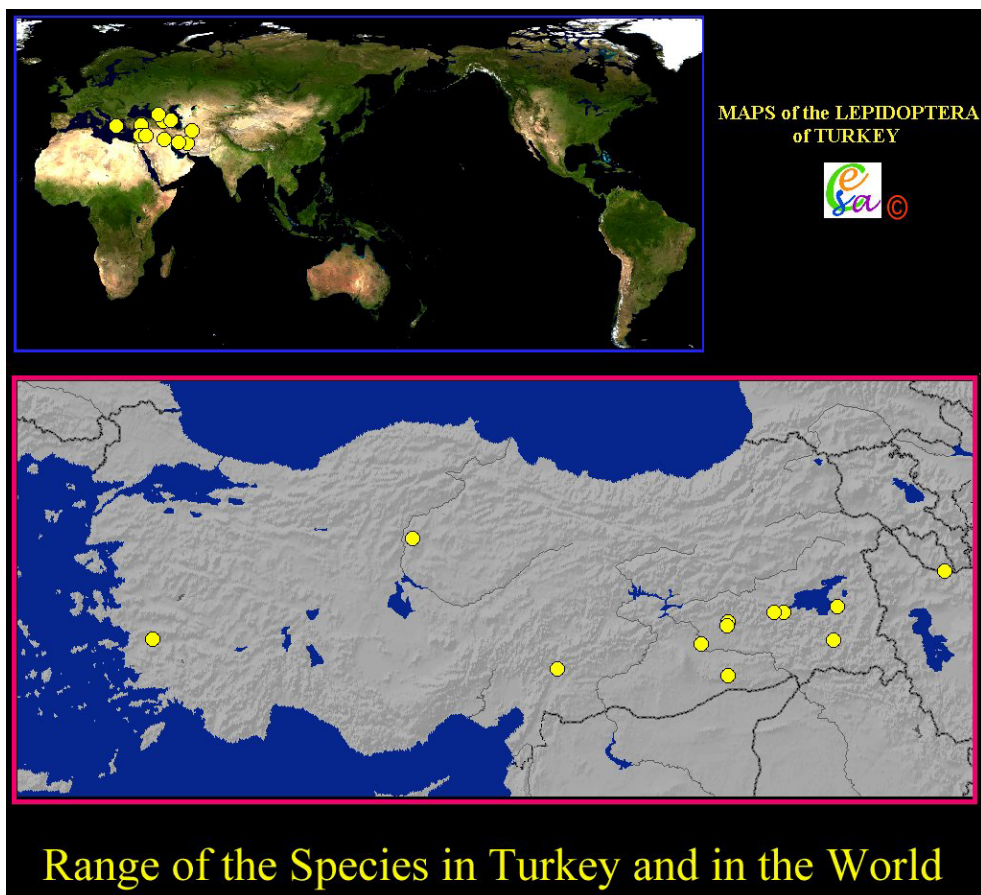
Map 67 - *Pleurota (s.str.) pyropella* ([Denis & Schiffermüller],1775) (Oecophoridae)



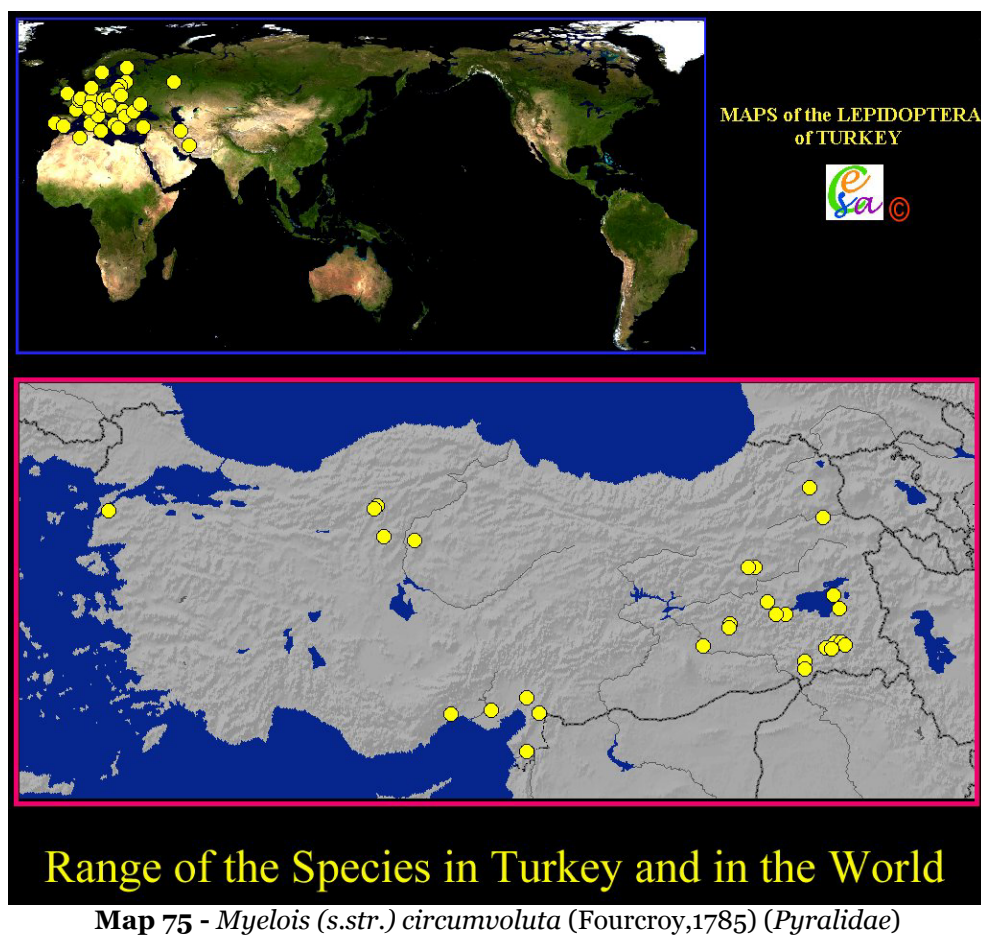
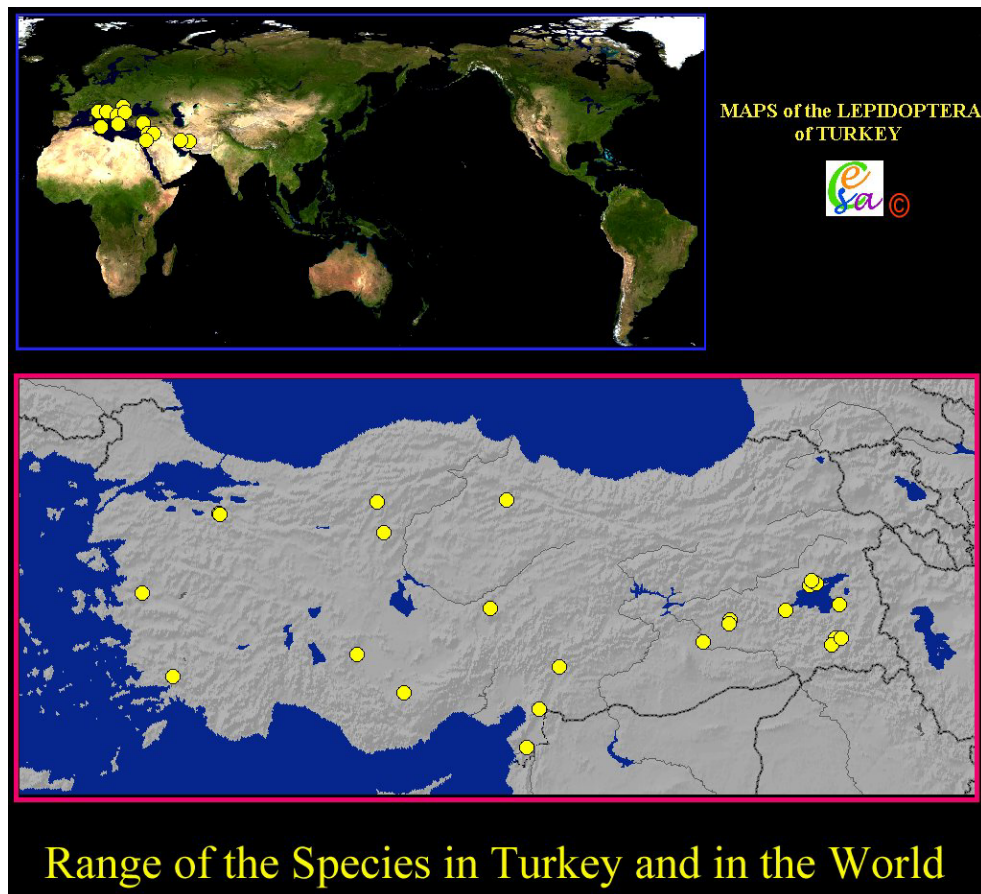


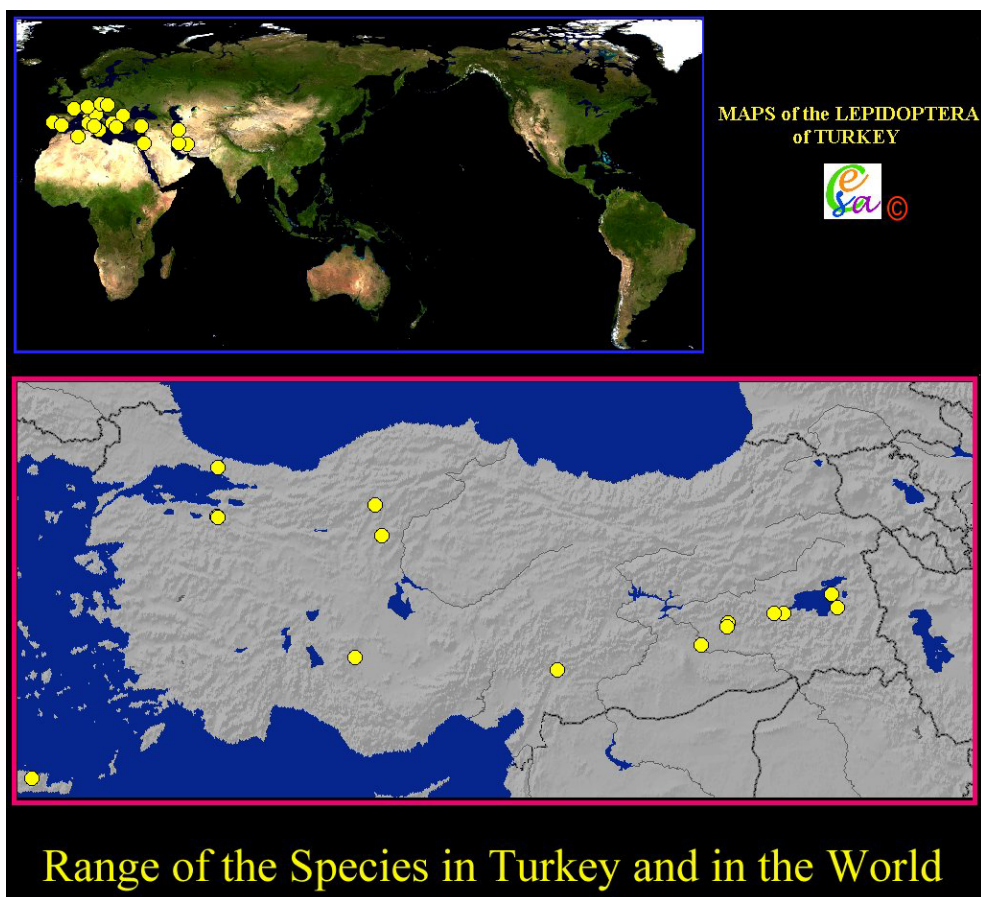


Map 72 -*Homoeosoma (s.str.) sinuellum* (Fabricius,1794) (Pyrallidae)

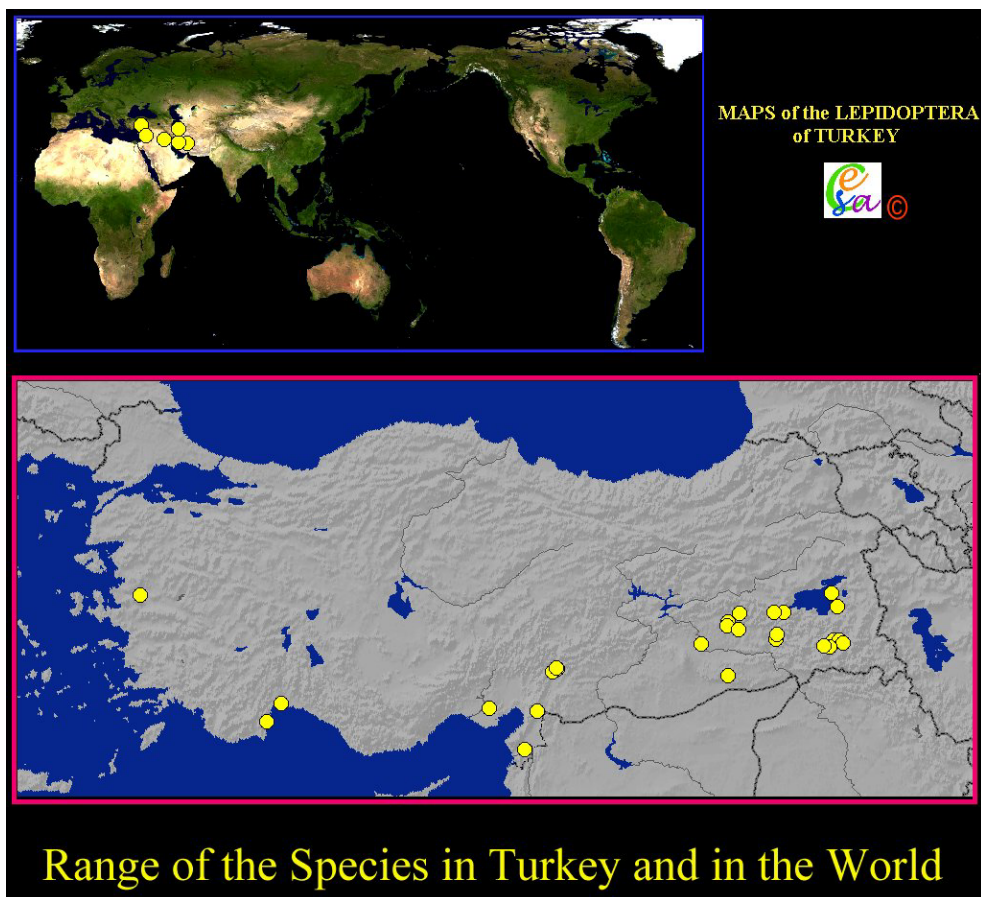


Map 73 -*Keradere lepidella* (Ragonot,1887) (Pyrallidae)

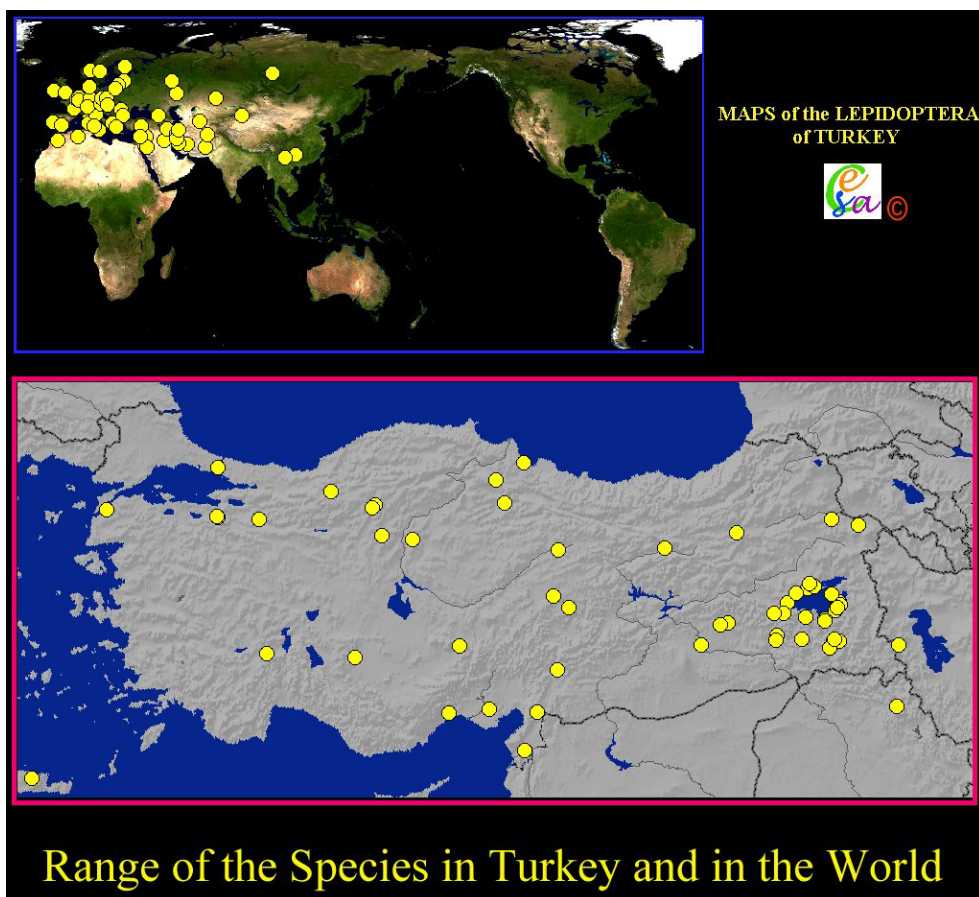




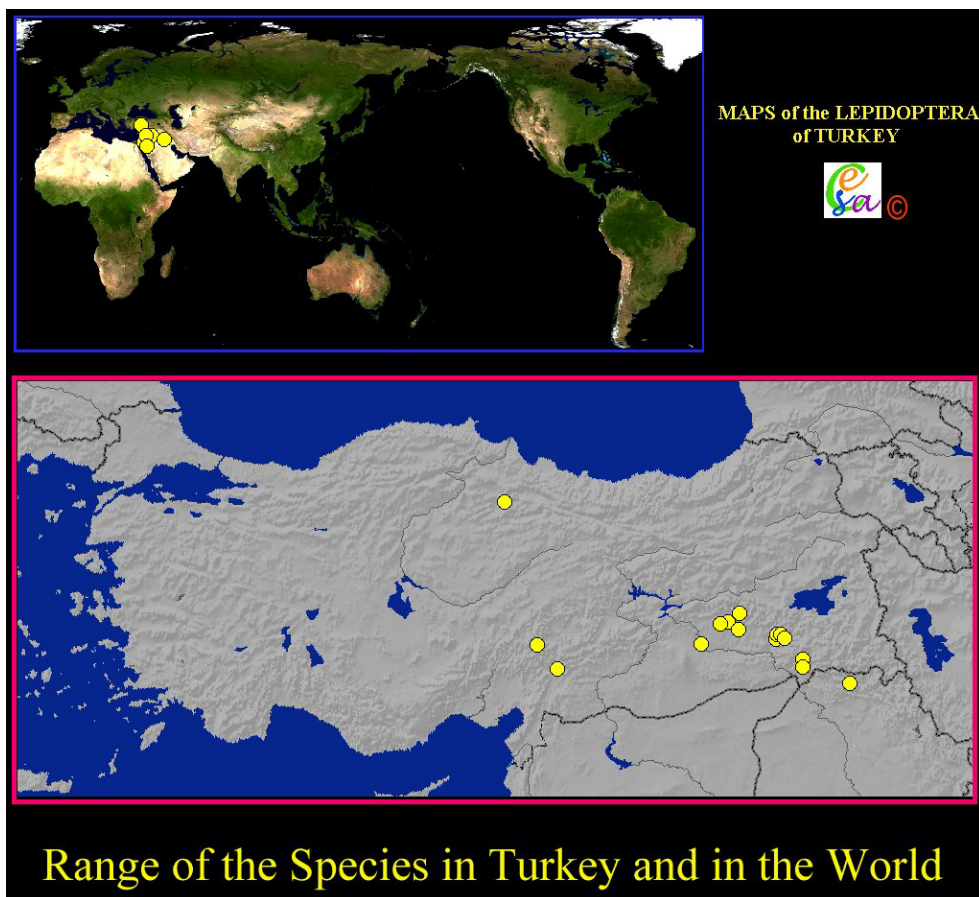
Map 76 - *Pseudosyria sororiella* (Zeller, 1839) (Pyrallidae)



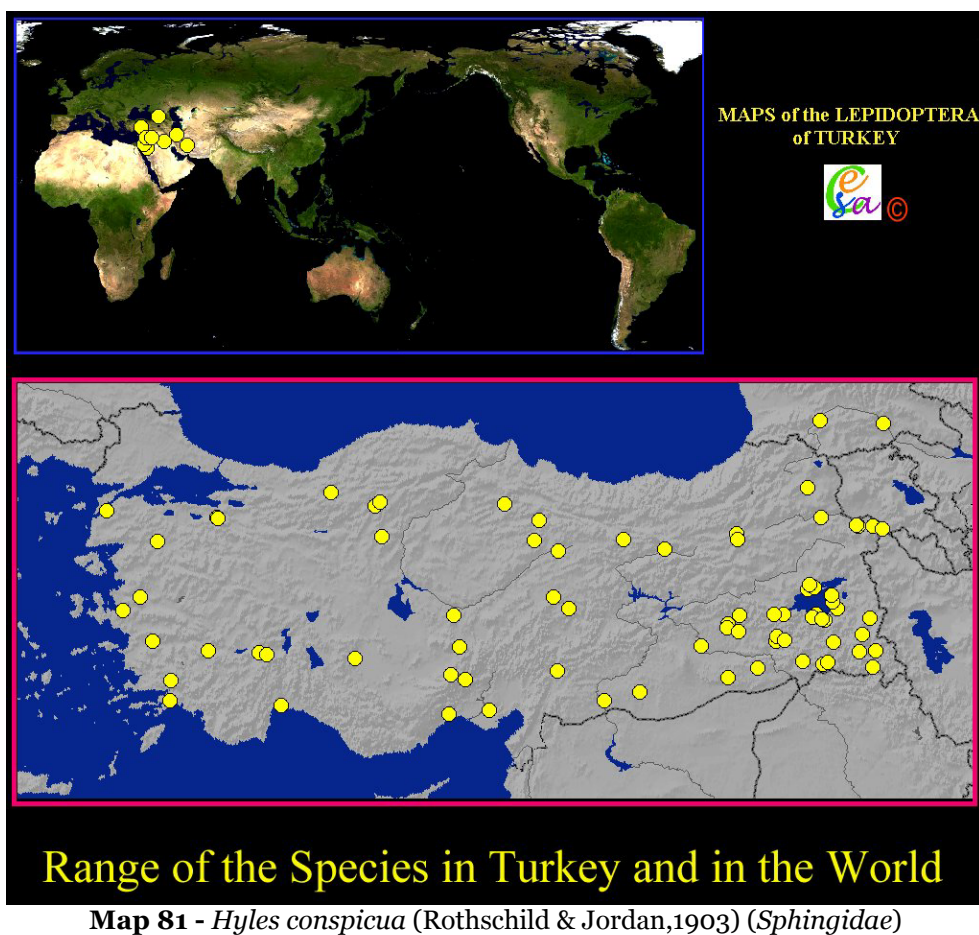
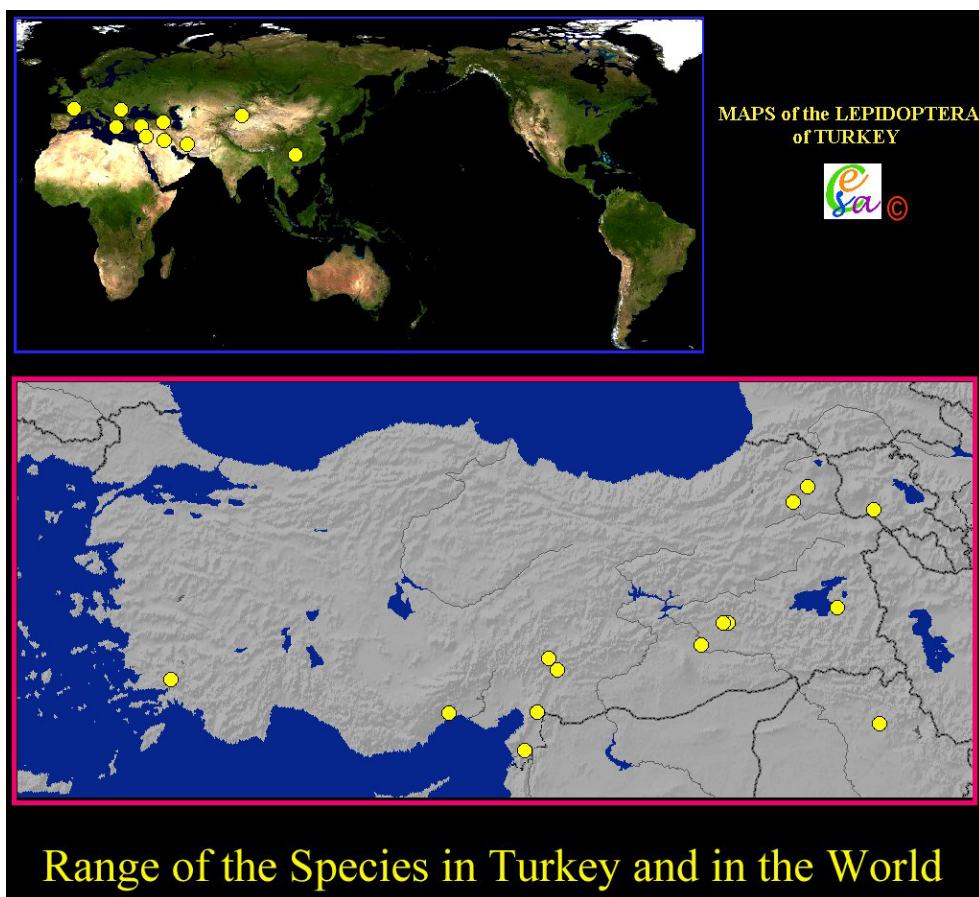
Map 77 - *Pyrasia gutturalis* (Staudinger, 1879) (Pyrallidae)

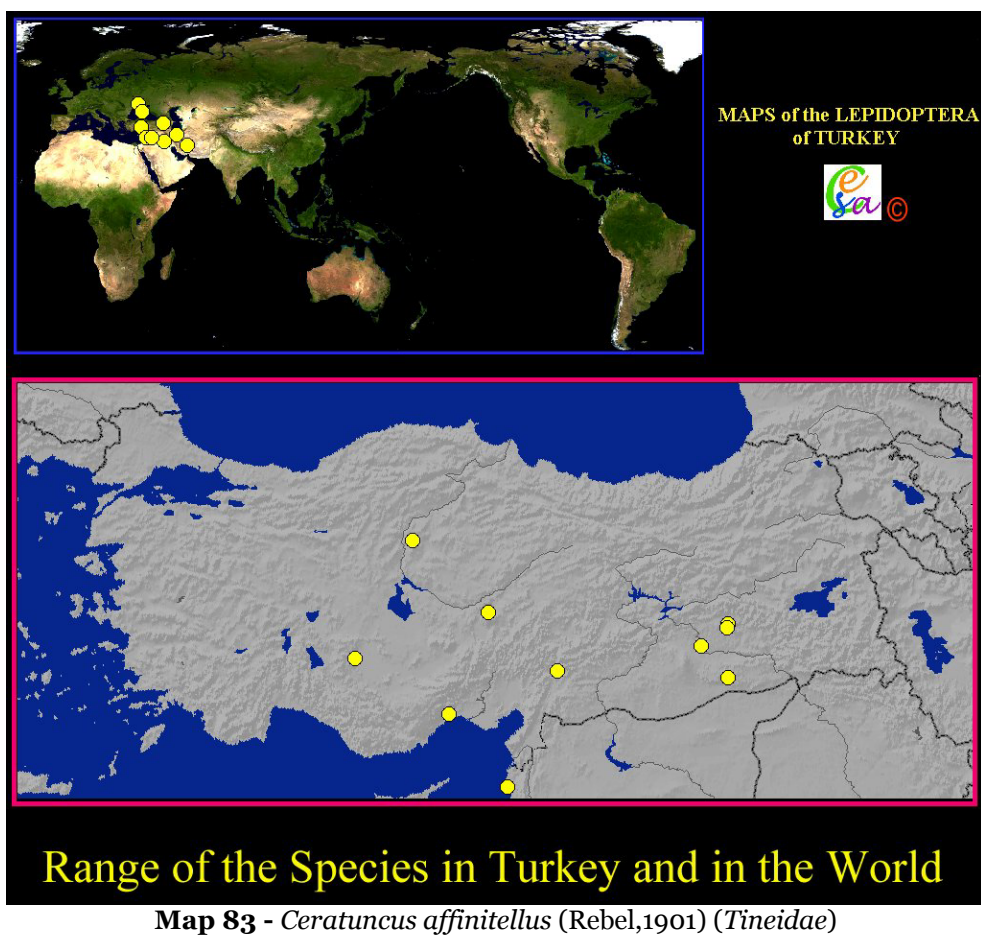
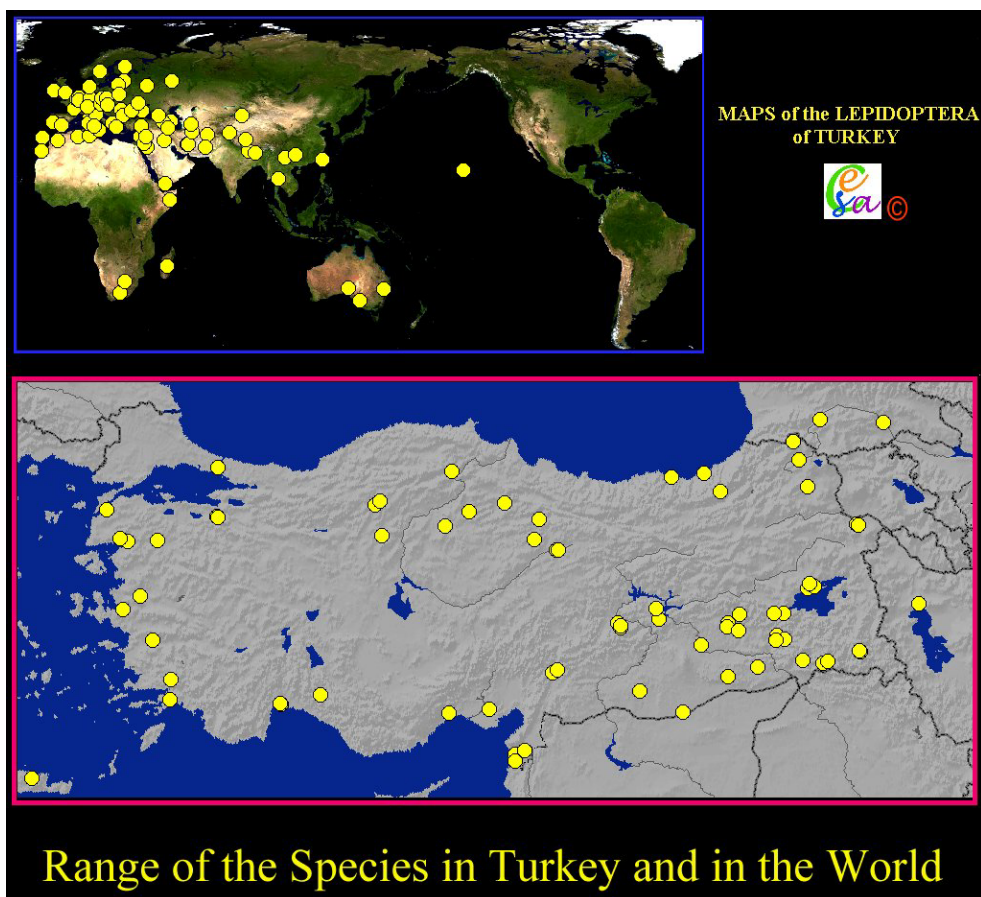


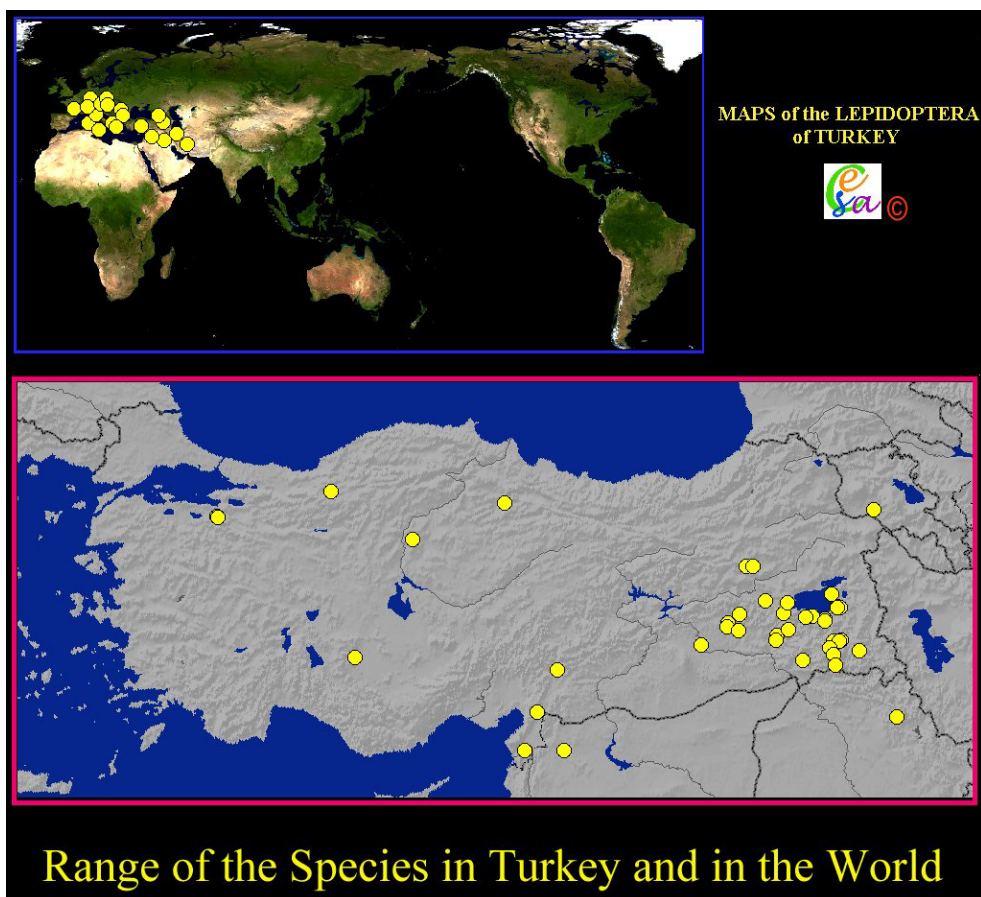
Map 78 - *Pyrausta despicata* (Scopoli, 1763) (Pyrallidae)



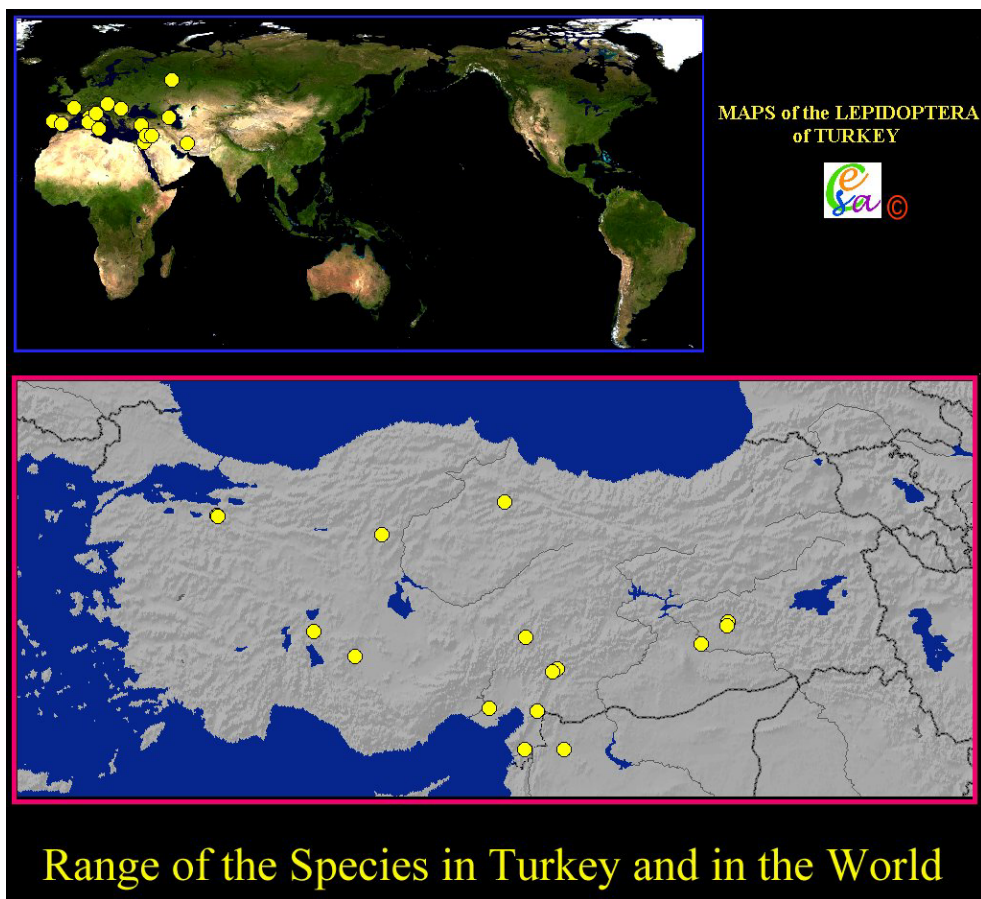
Map 79 - *Synaphe uxorialis* (Lederer, 1858) (Pyrallidae)



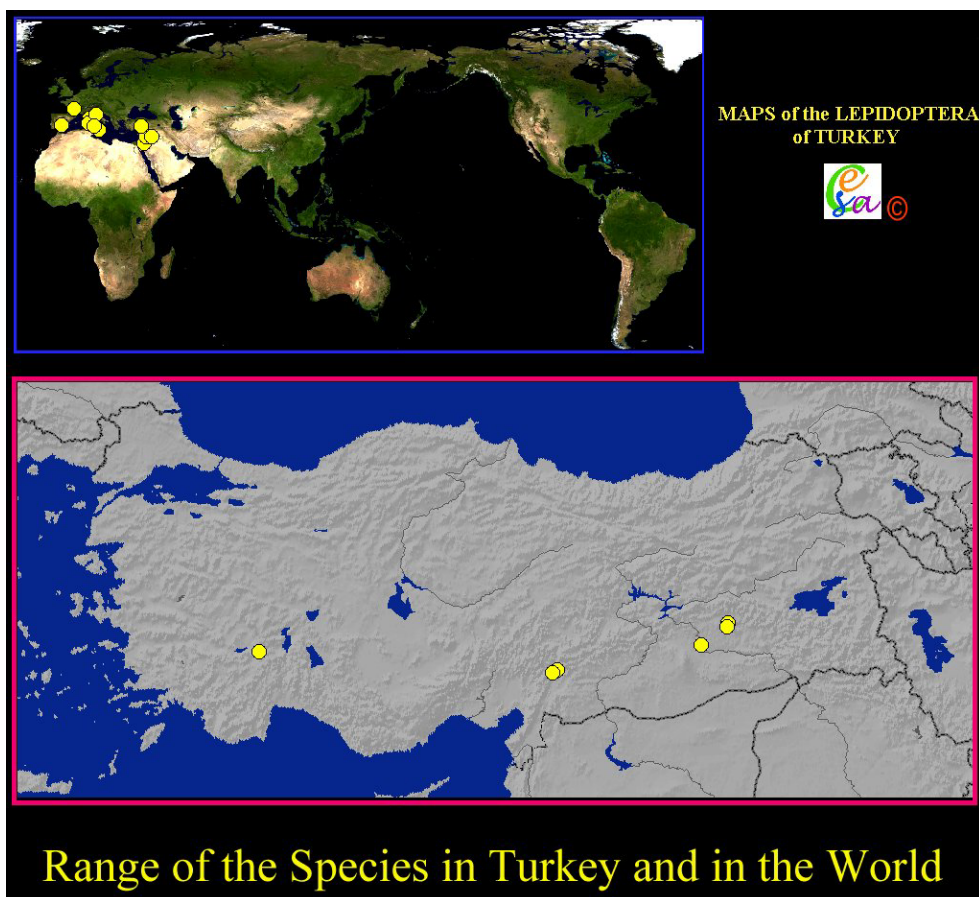




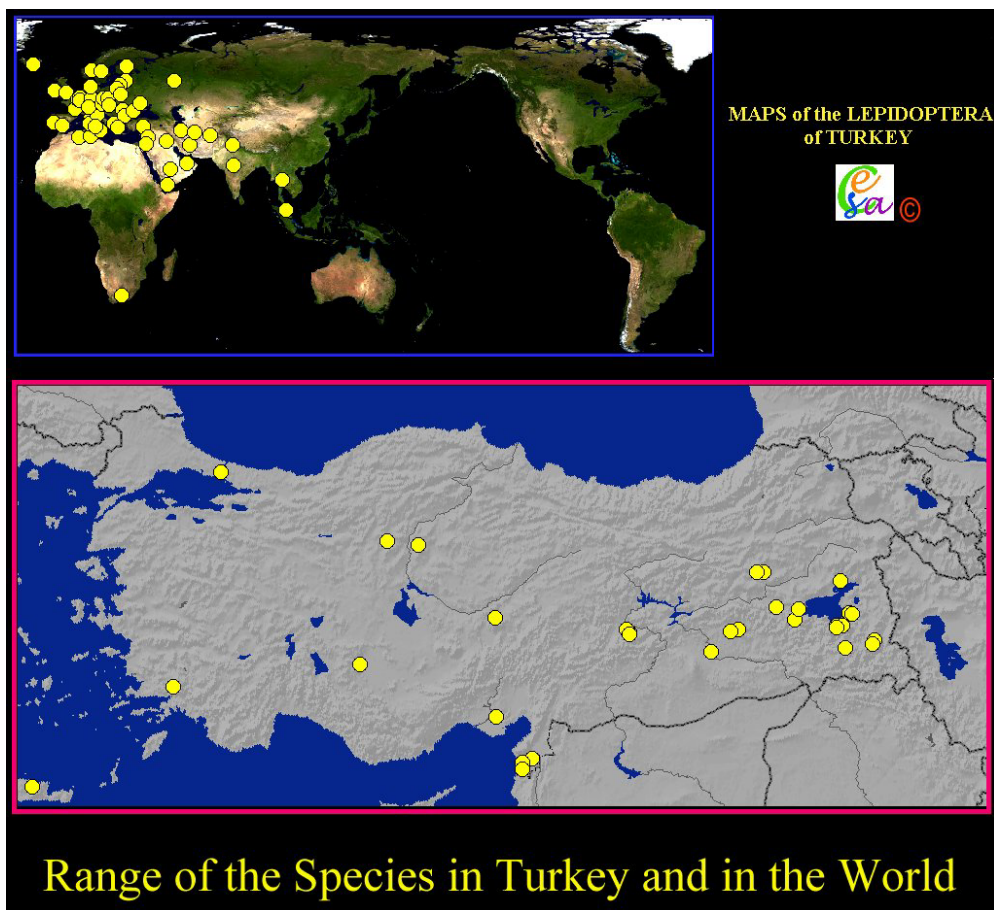
Map 84 - *Aphelia (Zelothereses) ferugana* (Hübner,1793) (Tortricidae)



Map 85 - *Diceratura roseofasciana* (Mann,1855) (Tortricidae)



Map 86 - *Lobesia (s.str.) porrectana* (Zeller, 1847) (Tortricidae)



Map 87 - *Plutella xylostella* (Linnaeus, 1758) (Yponomeutidae)

Centre for Entomological Studies Ankara



(A scientific Consortium)
(co-operation of research workers for pure-scientific, not commercial purpose)

Web Page of the Cesa: <http://www.cesa-tr.org/>

Scientific Serials: Priamus & Supplement (ISSN 1015-8243)⁷, Miscellaneous Papers (ISSN 1015-8235)⁸, Memoirs (ISSN-8227)⁹, DVD Films¹⁰, Iconographia Insectorum¹¹, Cesa Publications on African Lepidoptera (series)¹², Cesa News [online]¹³, Cesa Books¹⁴

Owners / Sahipleri - Editors / Yayıncılar: Prof. Dr. Ahmet Ömer Koçak (c/o Yüzüncü Yıl University, Turkey) - Editor Assistant: Asst. Prof. Dr. Muhabbet Kemal Koçak (c/o Yüzüncü Yıl University, Turkey).

Editorial Board of all Scientific Serials / Bütün Bilimsel Yayınların Yayın Kurulu: Insecta, taxonomy, nomenclature, ecology, faunistics: Prof. Dr. Ahmet Ömer Koçak (Yüzüncü Yıl Üniversitesi, Turkey), Asst. Prof. Dr. Muhabbet Kemal Koçak (Yüzüncü Yıl University, Turkey), Assoc. Prof. Dr. Selma Seven (Gazi University, Turkey); Homoptera: Dr. Emine Demir (Turkey). - Plant taxonomy, flora and vegetation: Assoc. Prof. Dr. Murat Ünal, Asst. Prof. Dr. Mesut Pınar, (Yüzüncü Yıl University, Van, Turkey).

ALL RIGHTS RESERVED

Correspondences should be addressed to: Prof. Dr. Ahmet Ömer Koçak, c/o Yüzüncü Yıl University, Fen Fakültesi, Biyoloji Bölümü, Kampus, Van / Turkey. - e-mail: cesa_tr@yahoo.com.tr

All serials are recorded regularly by the Zoological Record,
Thomson Reuters, Enterprise House, Innovation Way, Heslington, York, YO10 5NQ, United Kingdom
ts-emea-york.dcsadmins@thomson.com

⁷ <http://www.cesa-tr.org/Pri.htm> - pdf available after corresponding

⁸ <http://www.cesa-tr.org/Miscell.htm> - pdf available after corresponding

⁹ <http://www.cesa-tr.org/Memoirs.htm> -

¹⁰ <http://www.cesa-tr.org/CDF.htm>

¹¹ <http://www.cesa-tr.org/Icon.htm>

¹² http://www.metafro.be/Members/Cesa/internet_sayfas305/base_view - pdf available

¹³ <http://www.cesa-tr.org/Cesanews.htm>

¹⁴ <http://www.cesa-tr.org/Cesabooks.htm>